

C**B****A****FIG. 1**



FIG. 2

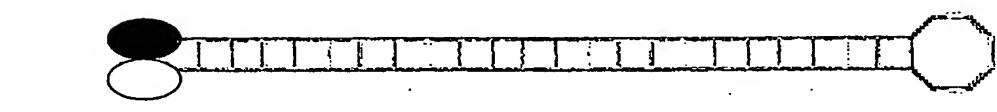
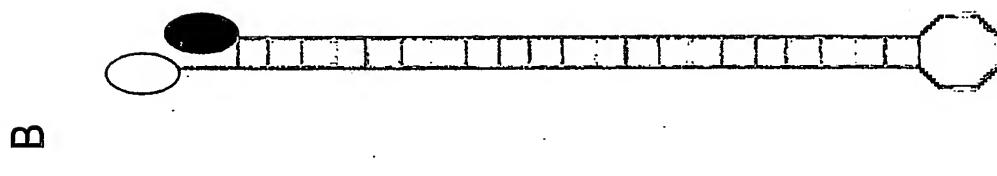
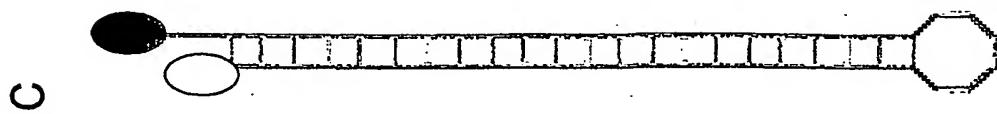


FIG. 3

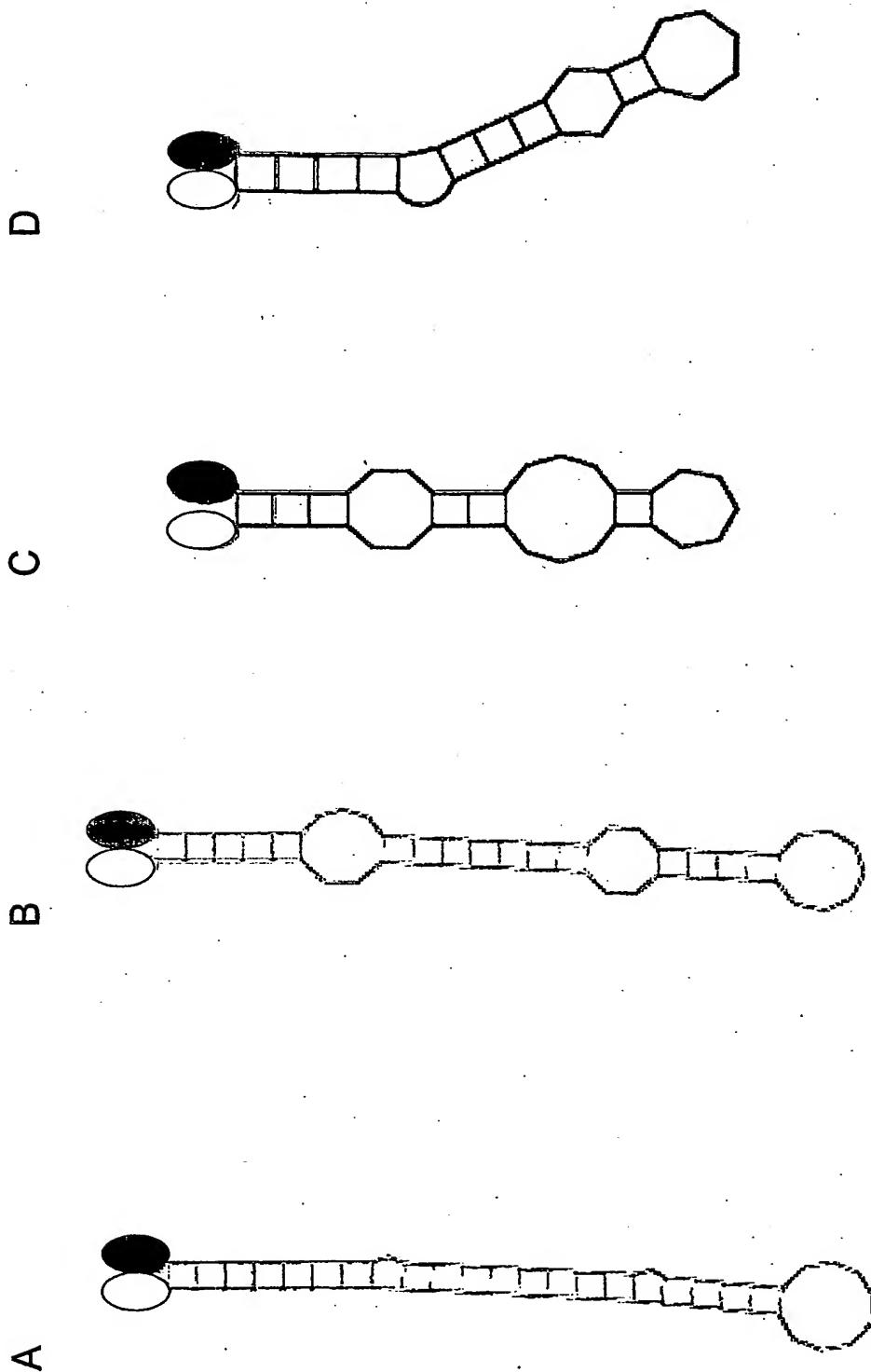


FIG. 4

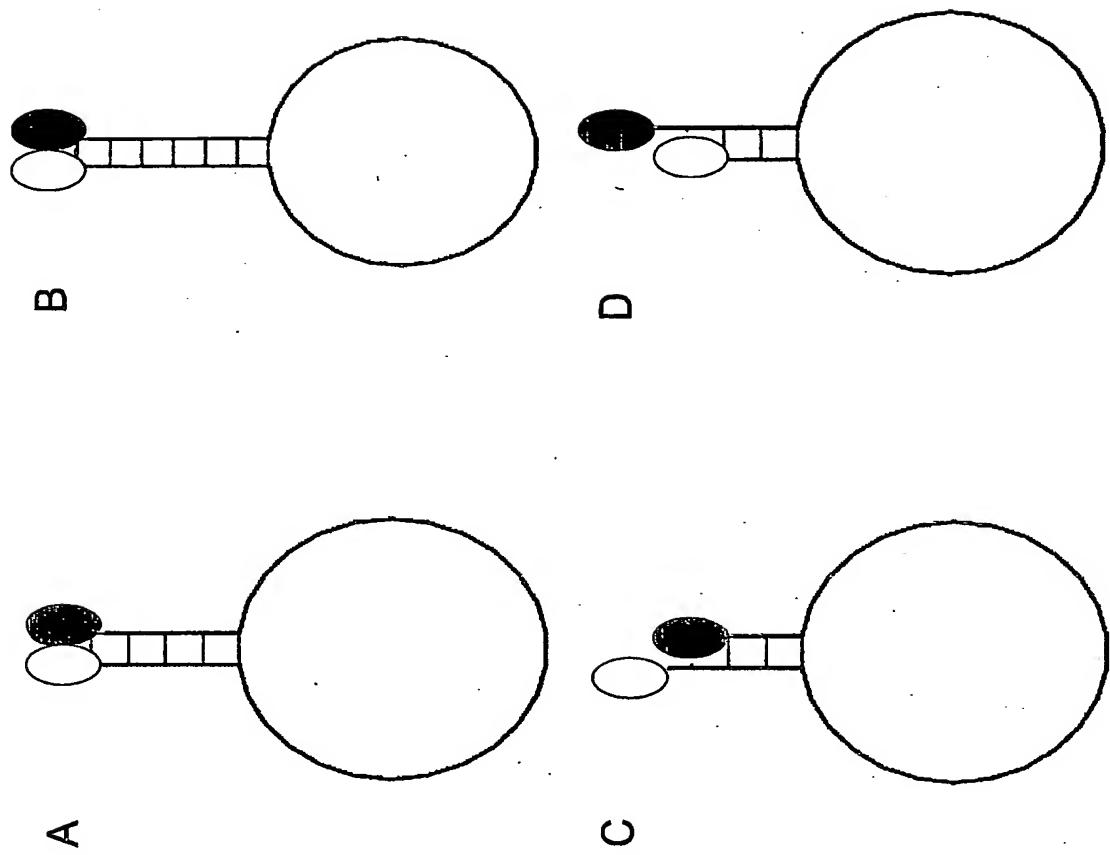


FIG. 5

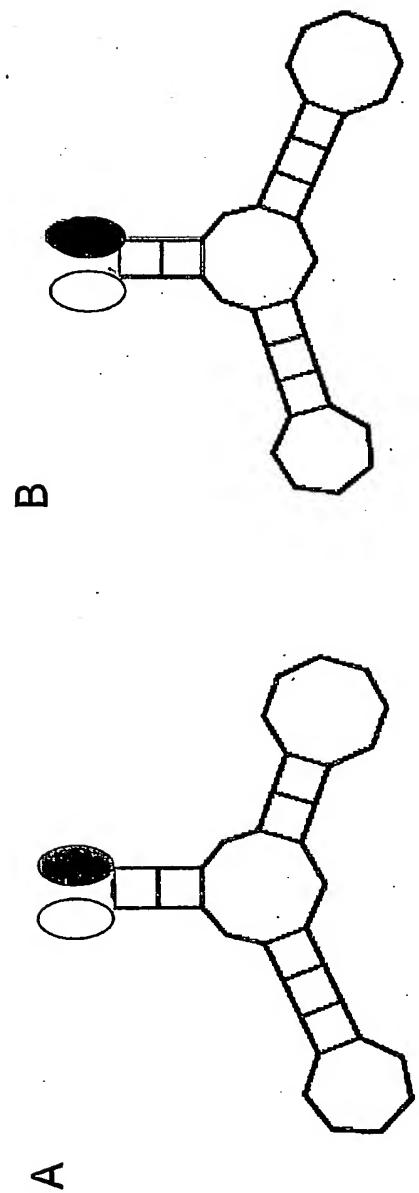
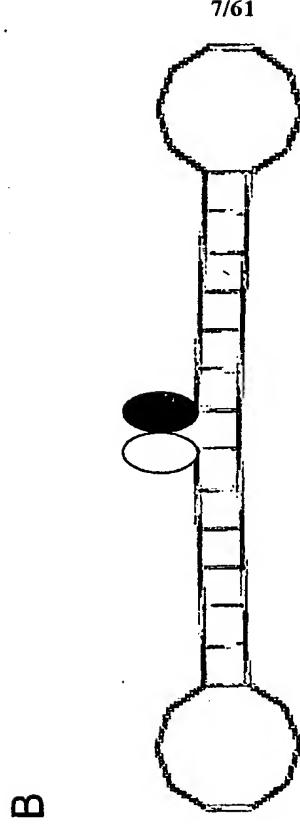


FIG. 6

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A

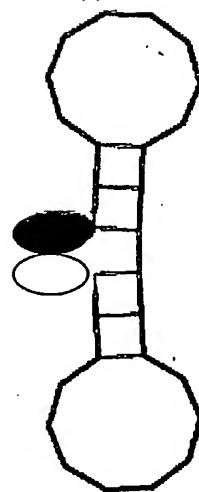
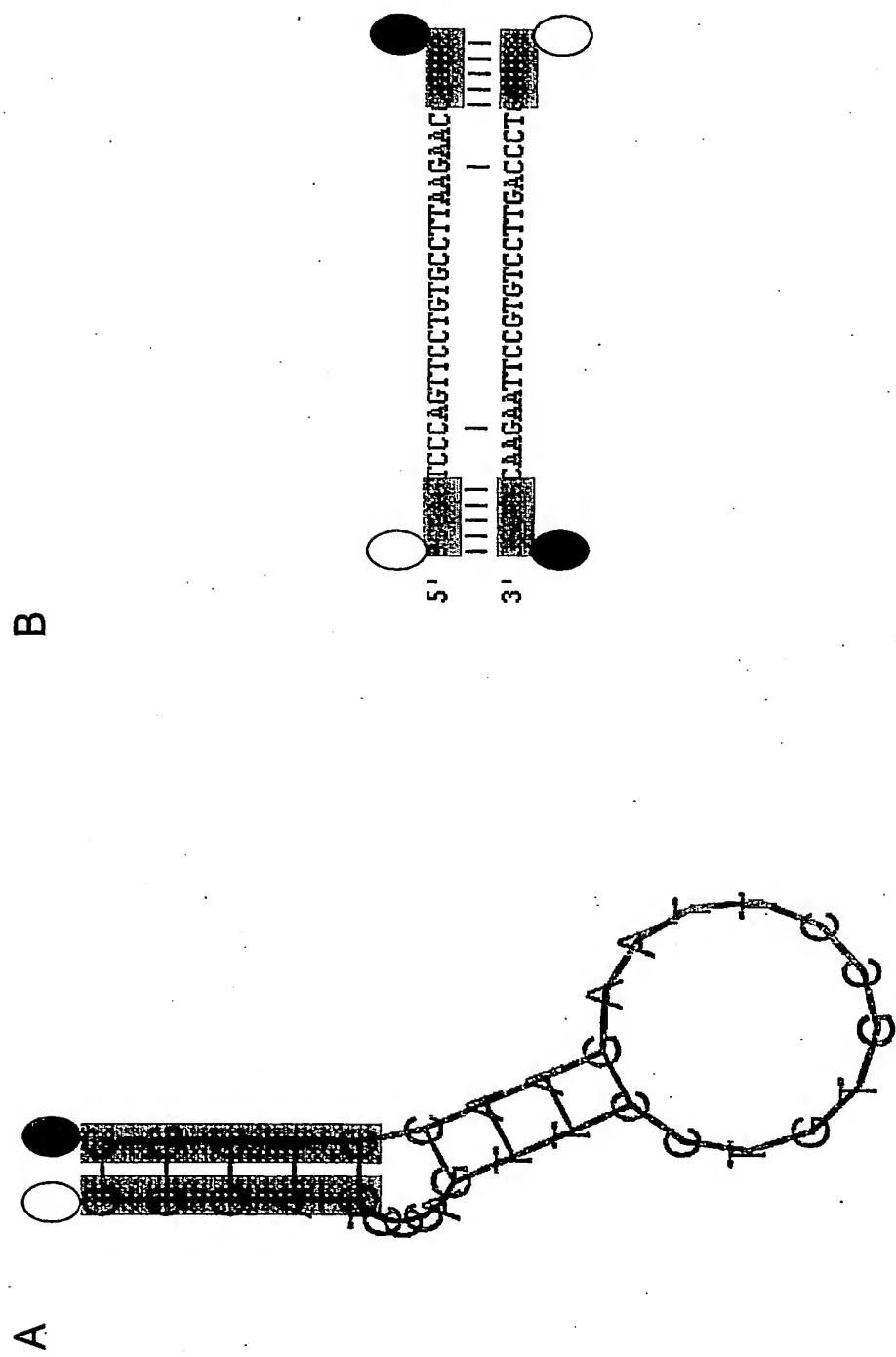
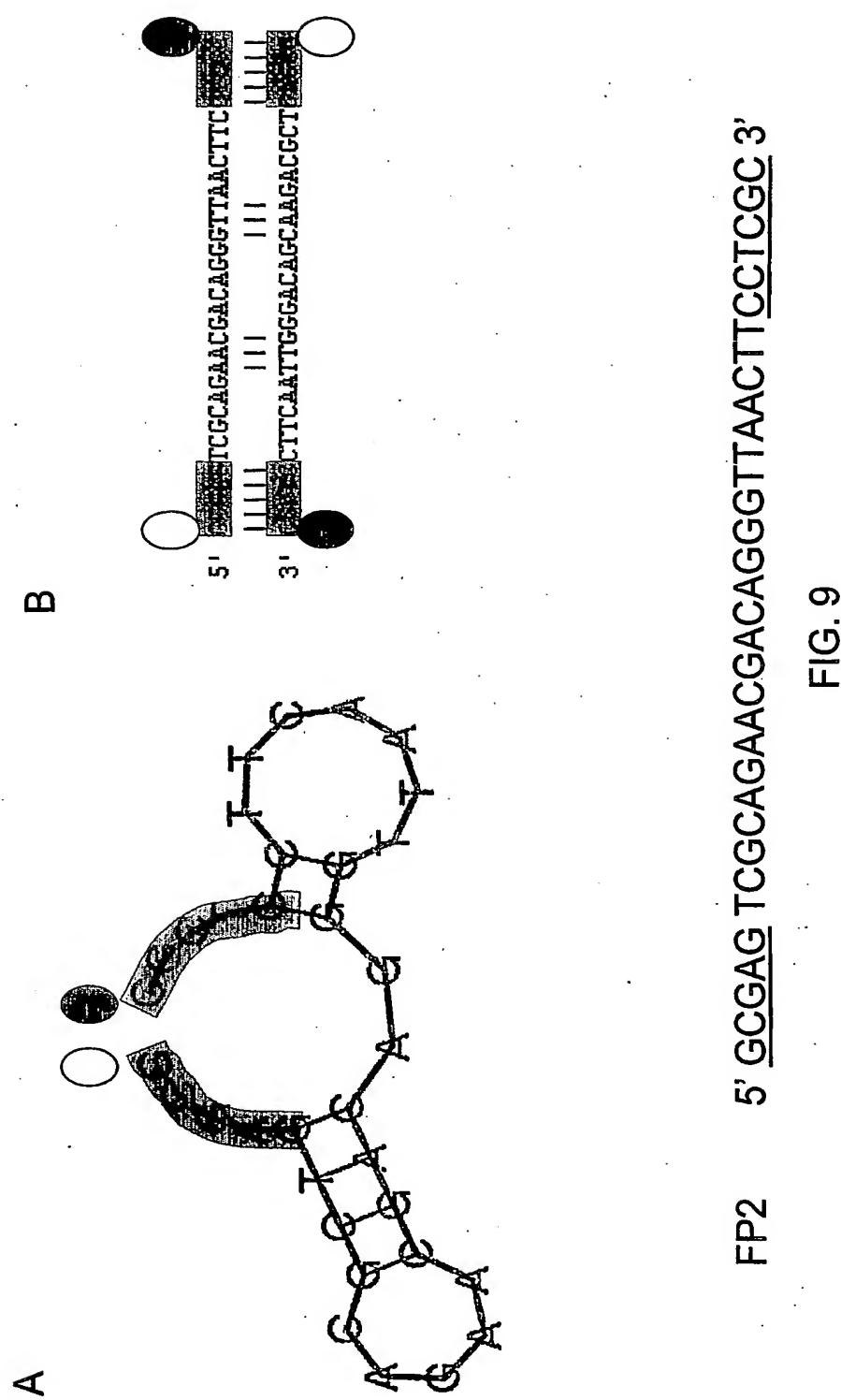


FIG. 7



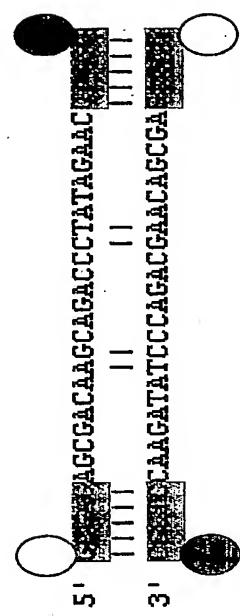
FP1 5' GCGAG TCCCAGTTCCCTGTGCCCTAAGAACCCTCGC 3'

FIG. 8



FP2 5' GCGAG TCGCAGAACGACAGGGTTAACTTCCTCGC 3'

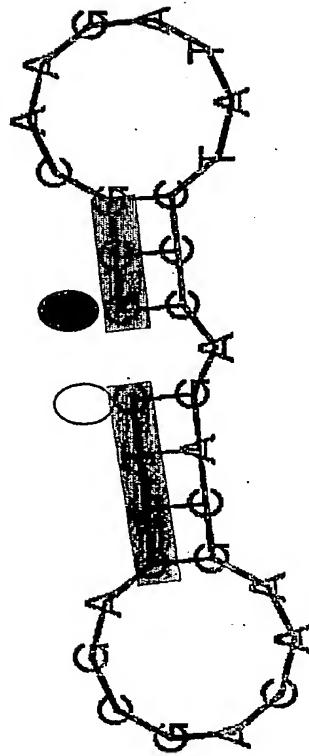
FIG. 9



5' GCGAG AGCGACAAGCAGACCCTATAGAAC CTCGC 3'

FP3

FIG. 10



5' CTGC AGCGACAAGCAGACCCTATAGAAC GGG 3'

FP4

FIG. 11

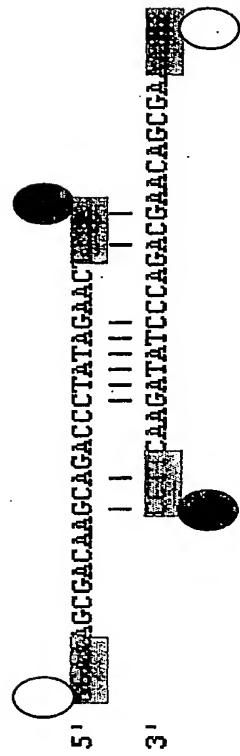
FP5 5' ggaa TCCCCAGTTCCCTGTGCCCTAAGAAC ttcc 3'

FIG. 12

5' ggaa TCGCAGAACGACAGGGTTAACTTC tcc 3'

FP6

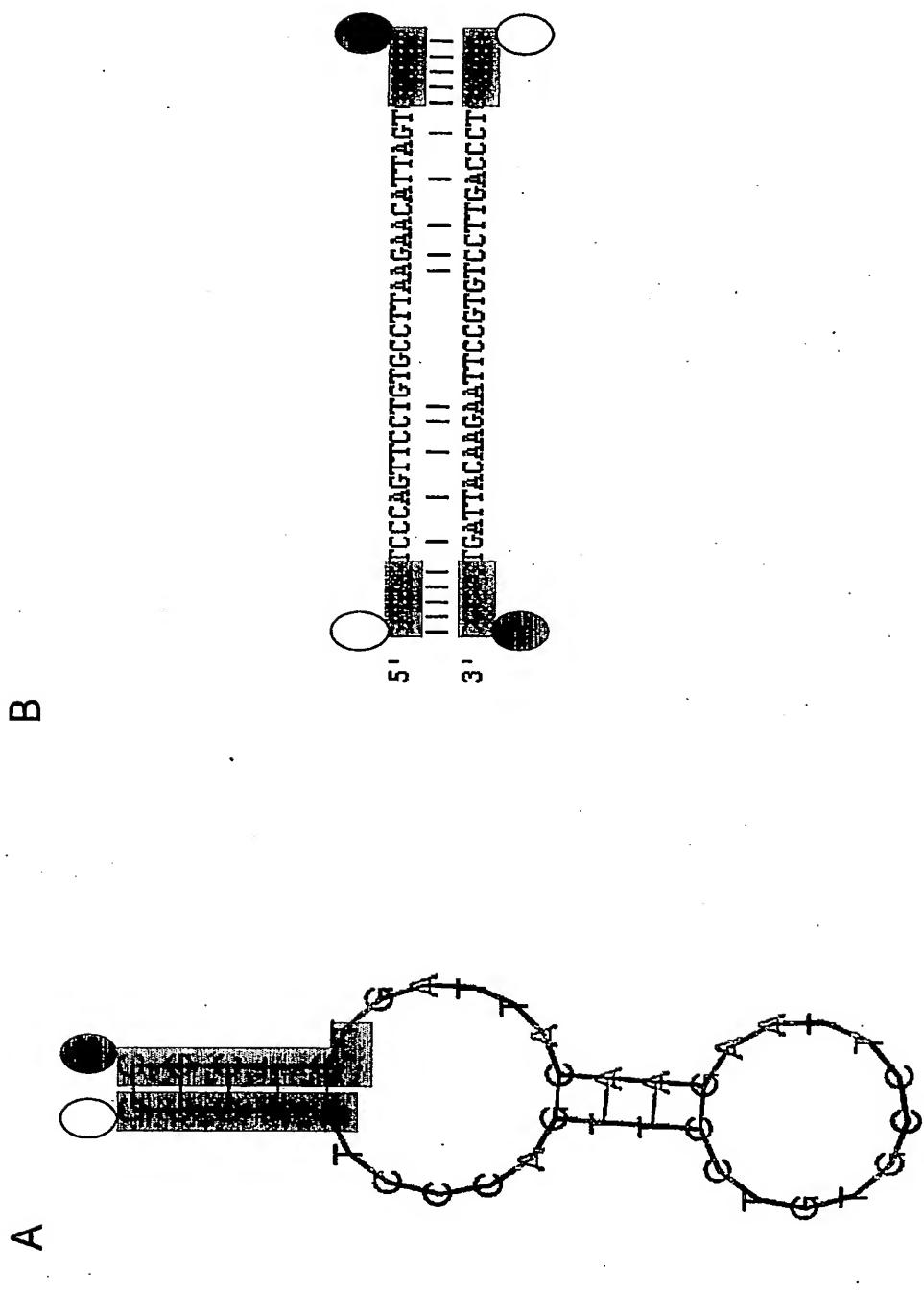
FIG. 13



FP7

5' ggaa AGCGACAAGCAGACCTATAGAAC ttcc 3'

FIG. 14



FP8

5' GCGAG TCCCAGTTCTGTGCCCTAAGAACATTAGtCTCGGC 3'

FIG. 15

5' ggaa TCCCCAGTTCCCTGTGCCCTTAAGAACatttagttcc 3'

F9

FIG. 16

FP10 5' gtgat TCCCCAGTTCCCTGTGCCCTTAAGAAC atcac 3'

FIG. 17

FP11 5' ggacTCCCAGTTCCCTGTGCCTAAAGAAC gtcc 3'

FIG. 18

FP12 5' ggg TCCCCAGTTCCCTGTGCCCTTAAGAAC ccc 3'

FIG. 19

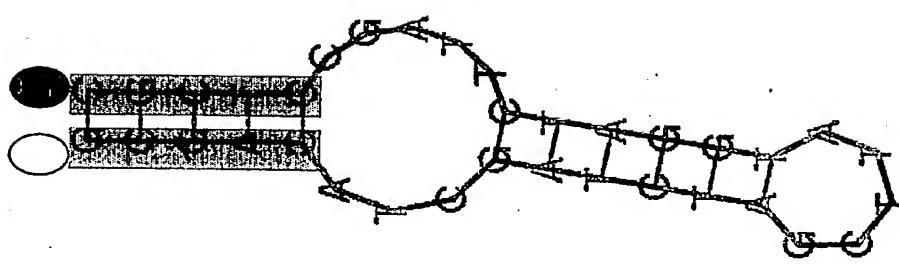
FP13 5' gca TCCCCAGTTCCCTGTGCCTTAAGAAC cgc 3'

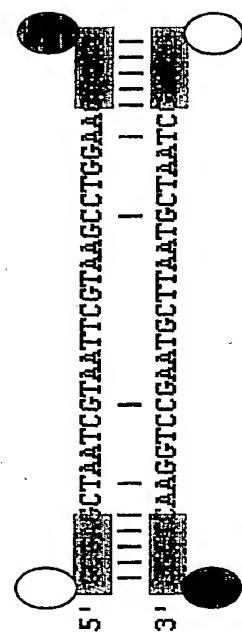
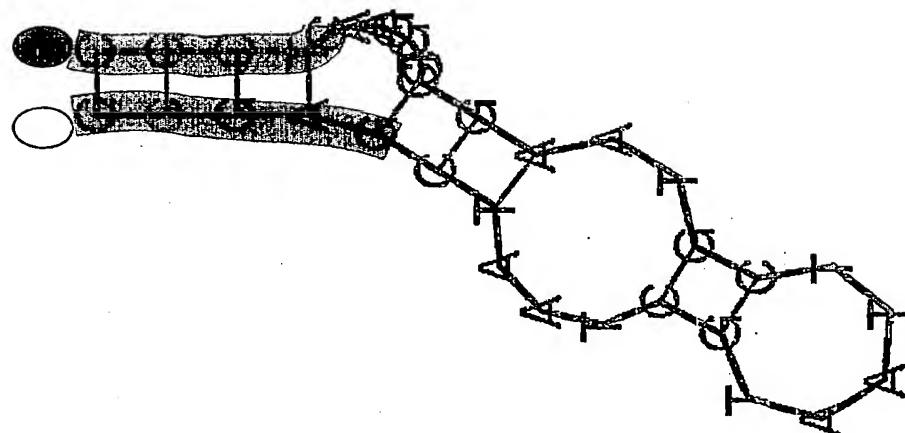
FIG. 20

5' ccgag ATCGATCTAGCTTATGGATCTTAGC CTCGGC 3'

FIG. 21

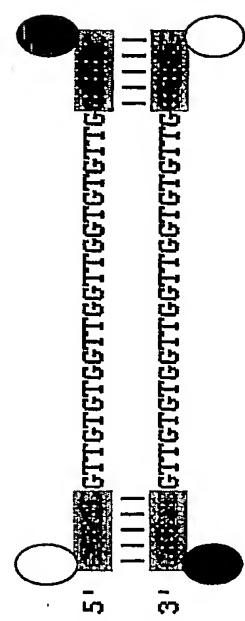
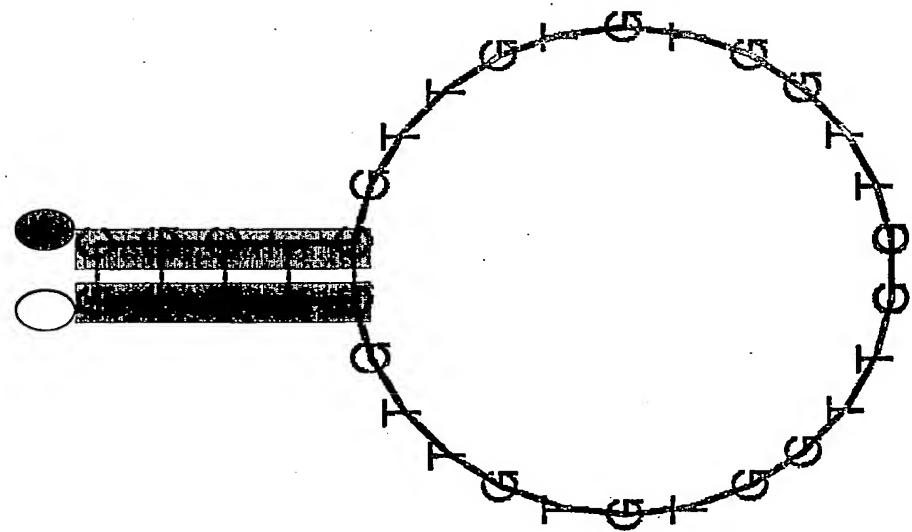
FP14



B**A**

FP15 5' gcgag CTAATCGTAATTCTGTAAGCCTGGAA CTCCGC 3'

FIG. 22

B**A**

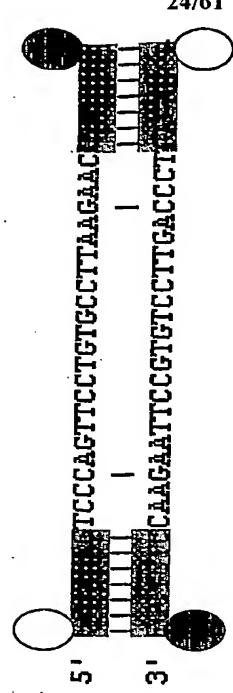
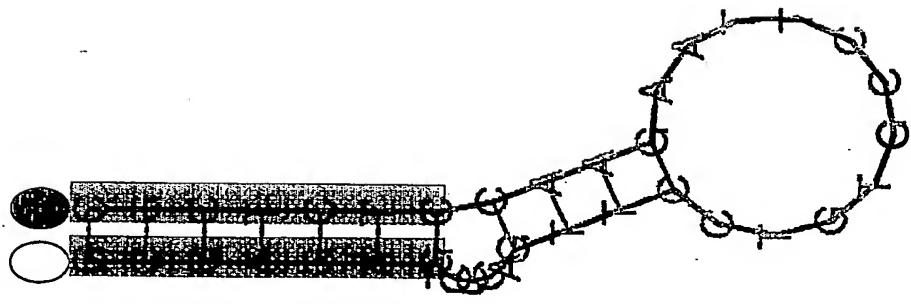
FP16 5' gcgag GTTGTGTGGTTGGTTG ctcgc 3'

FIG. 23

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B

A



FP17

5' GCGAGAG TCCCAGTTCCCTGTGCCTTAAGAAC CTCTCGC 3'

FIG. 24

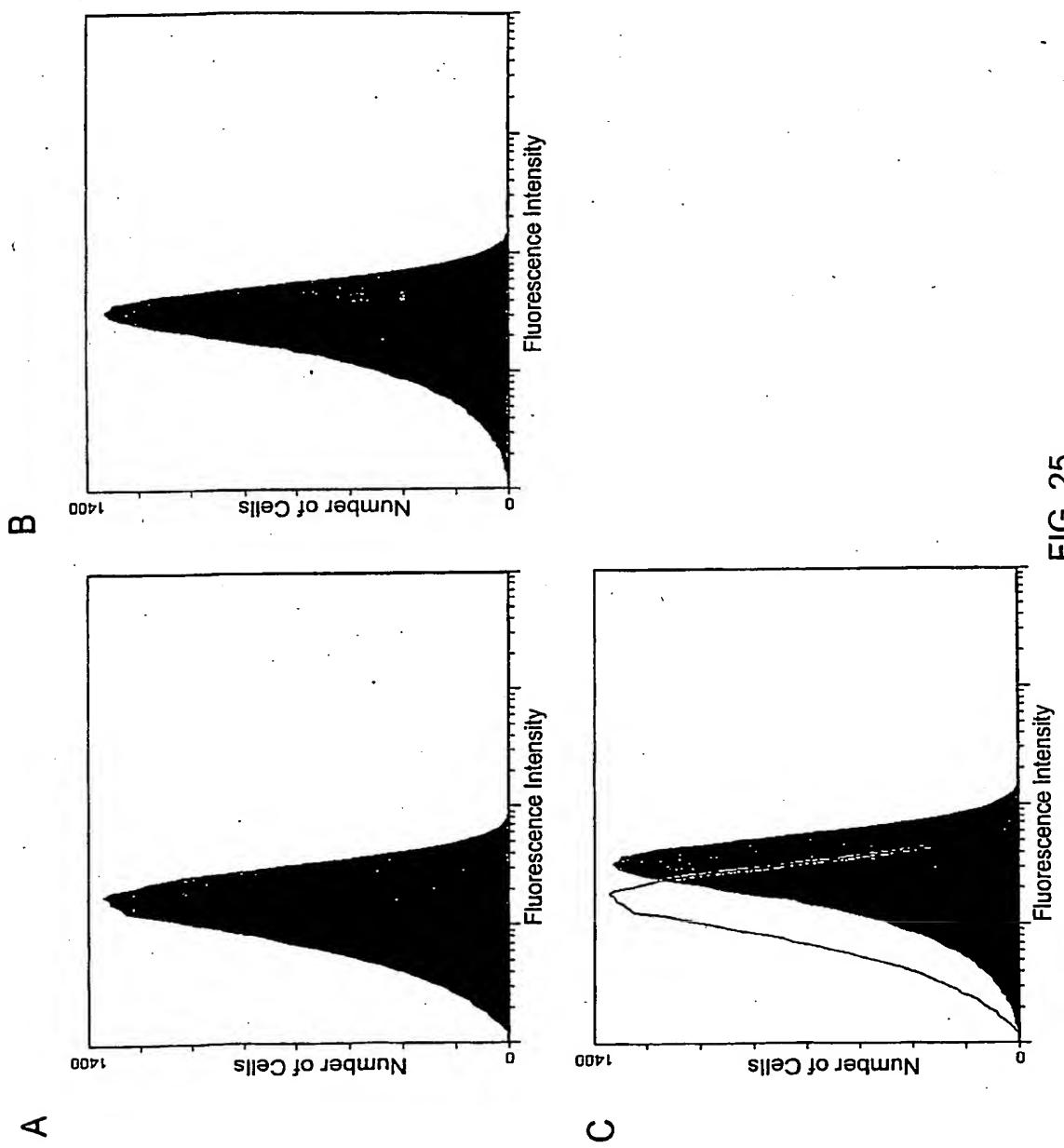
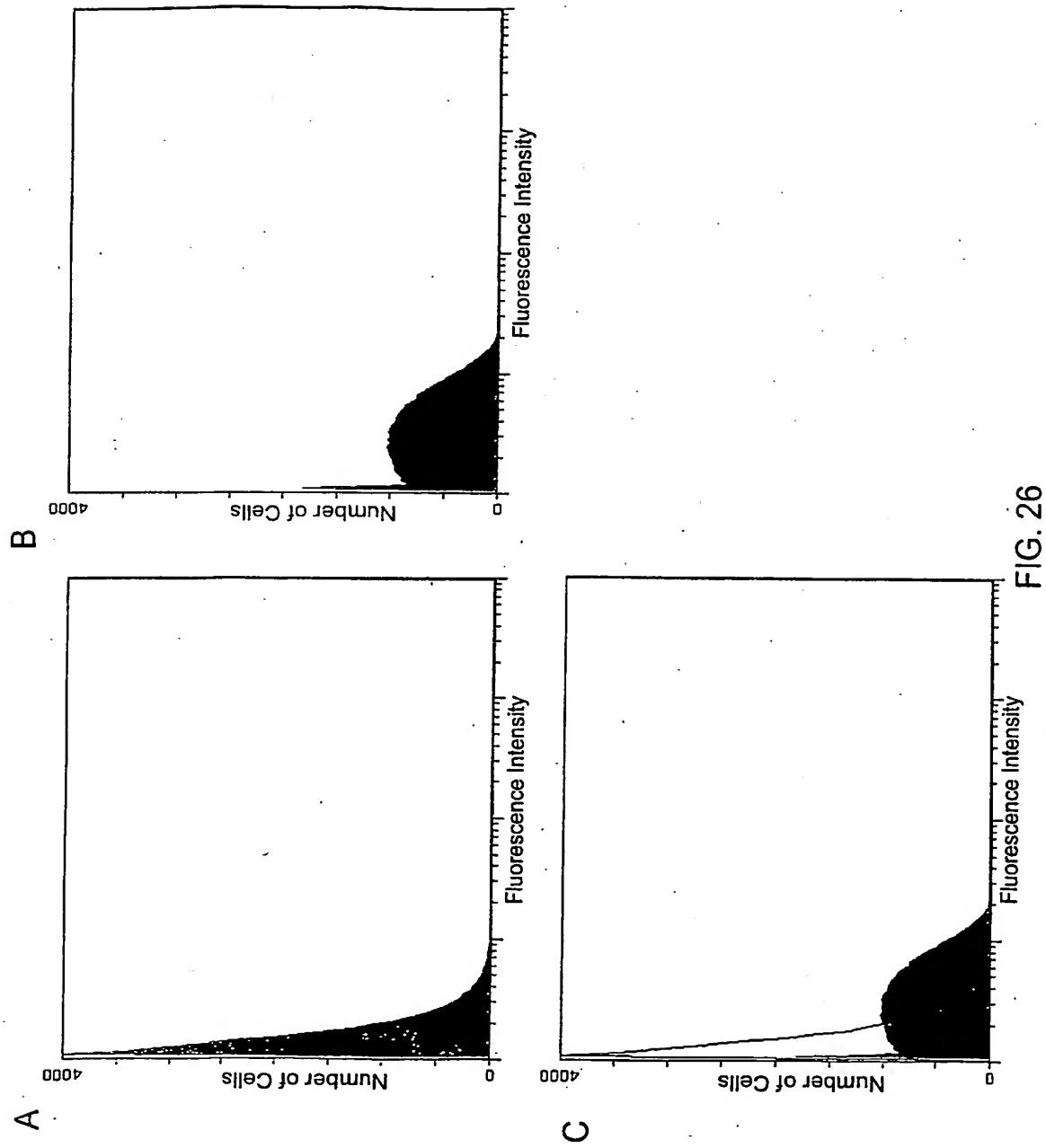
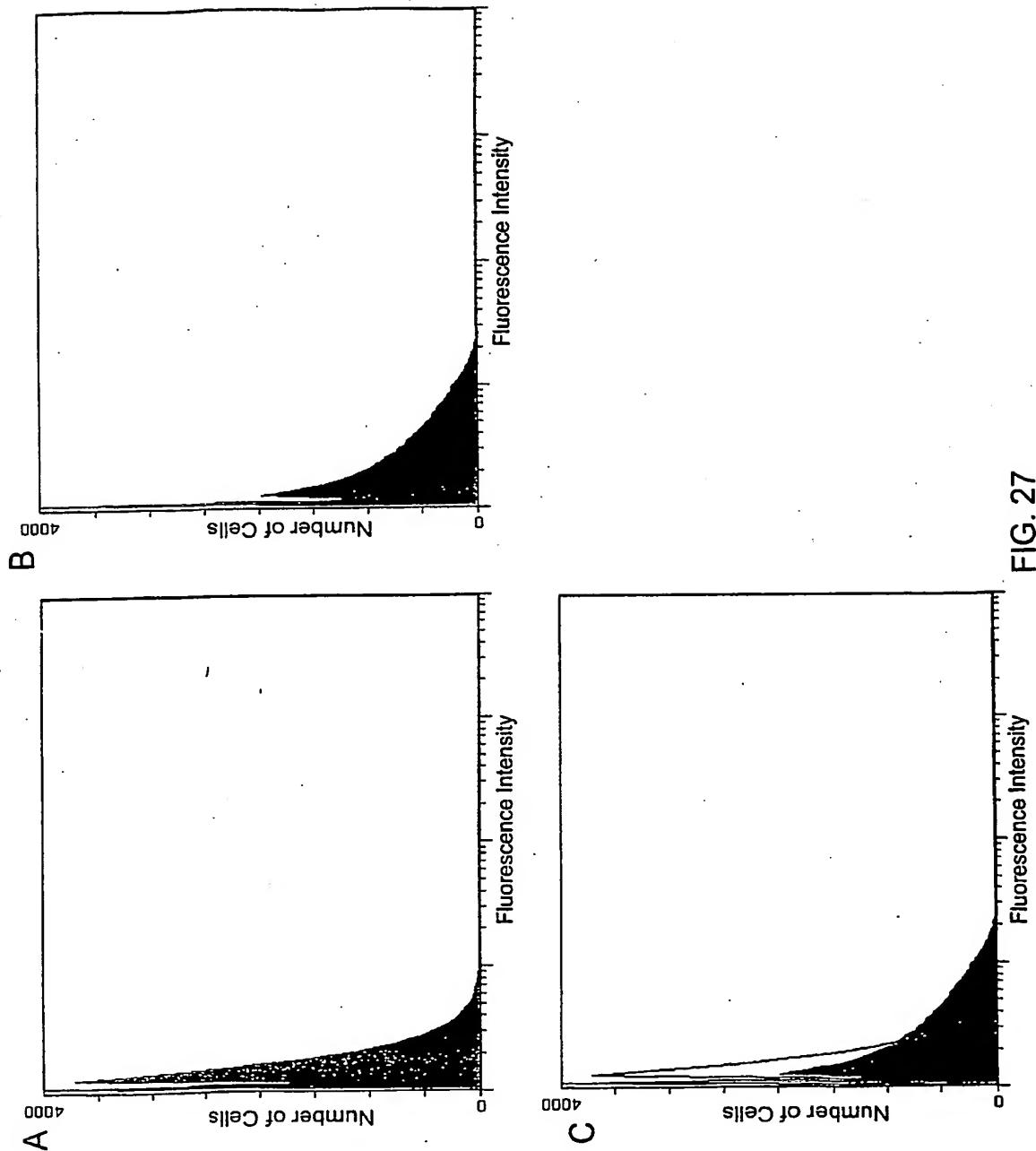
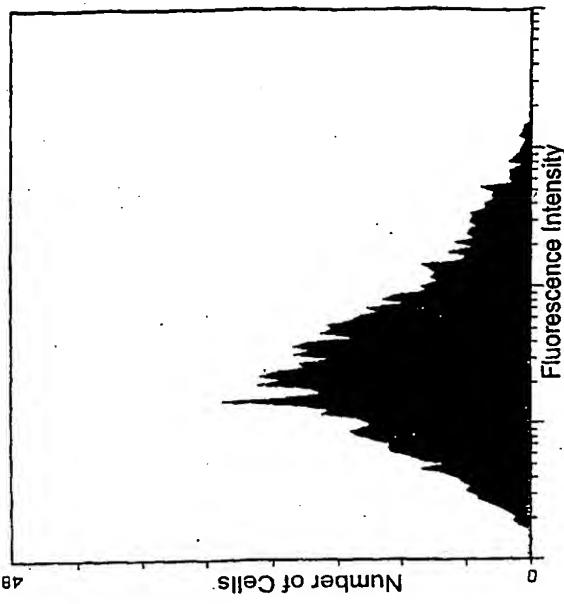


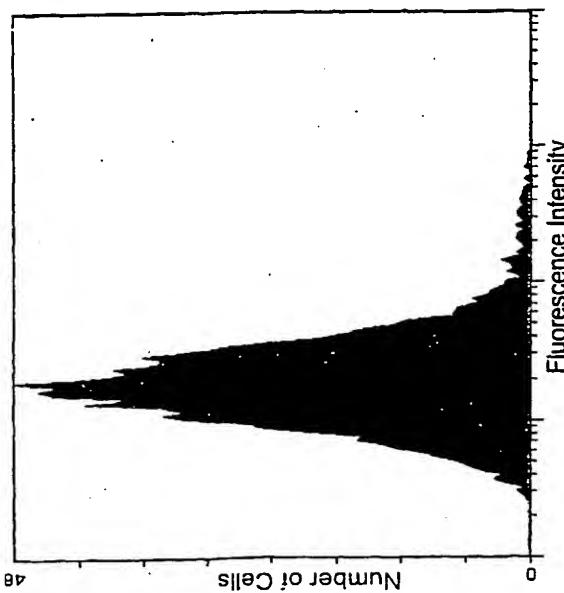
FIG. 25



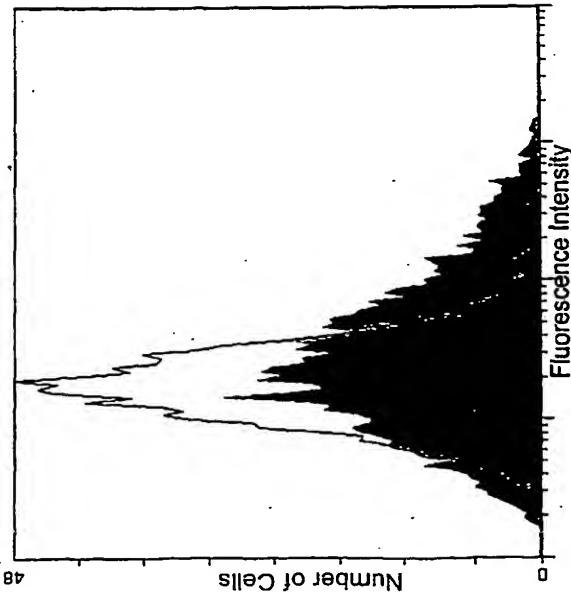




B



A



C

FIG. 28

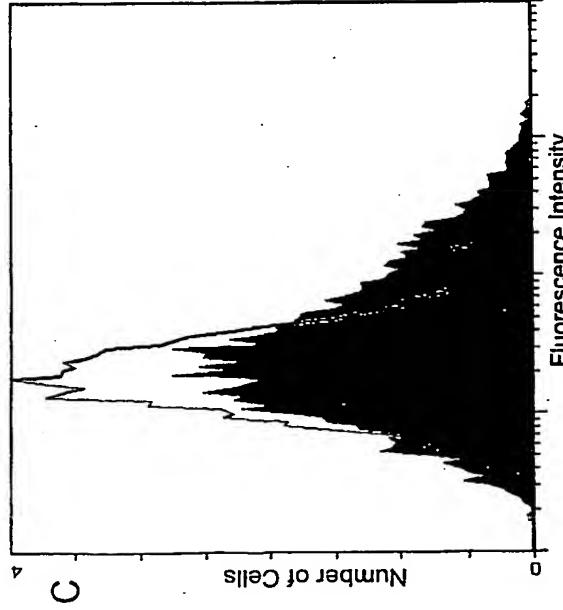
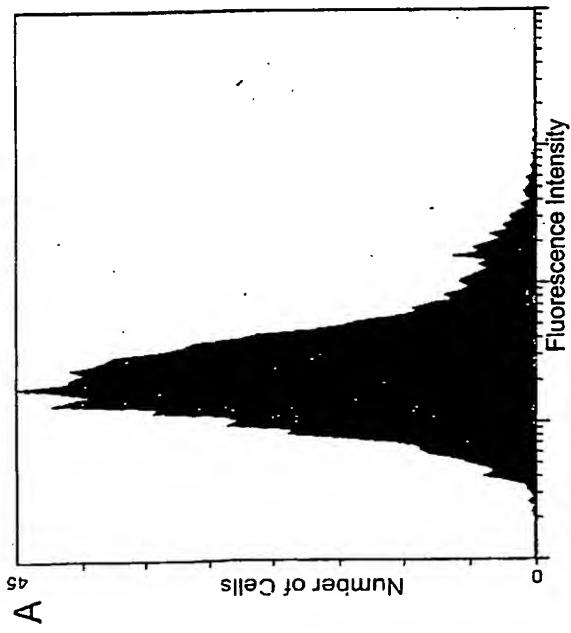
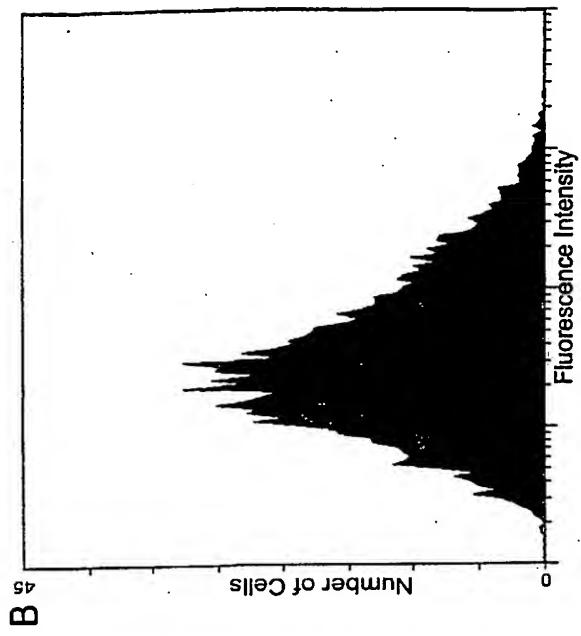
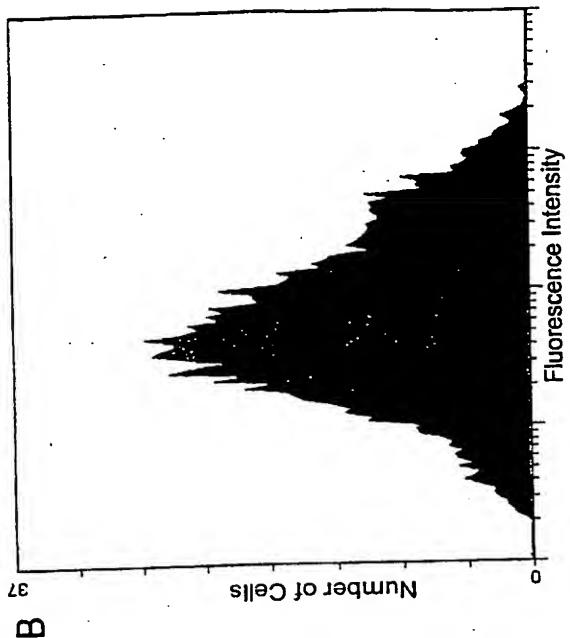
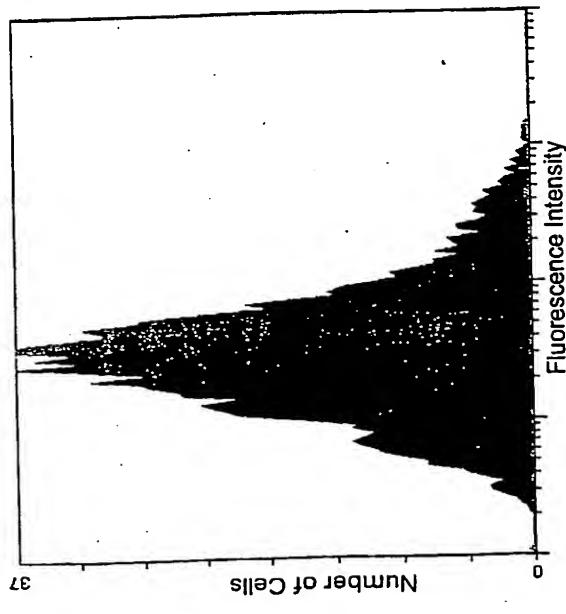


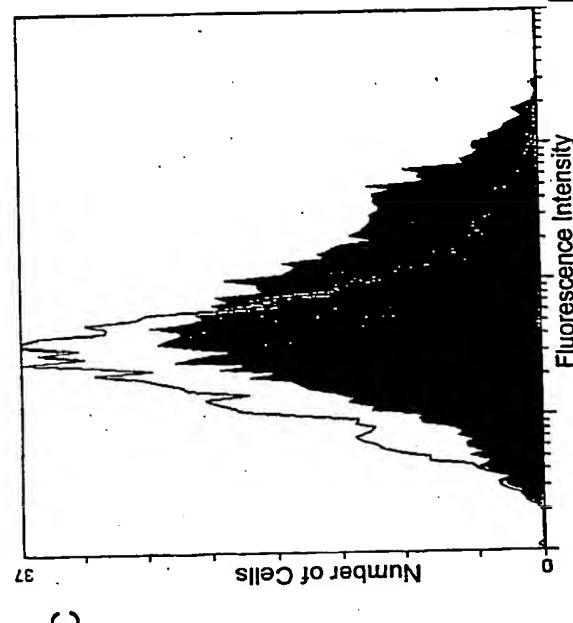
FIG. 29



B



A



C

FIG. 30

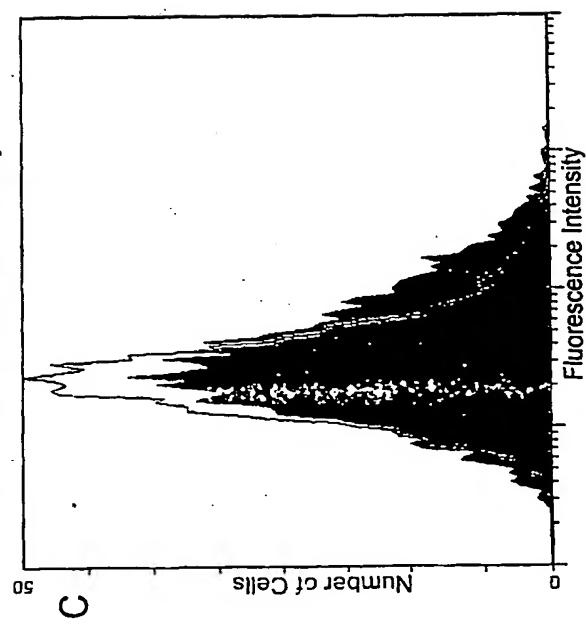
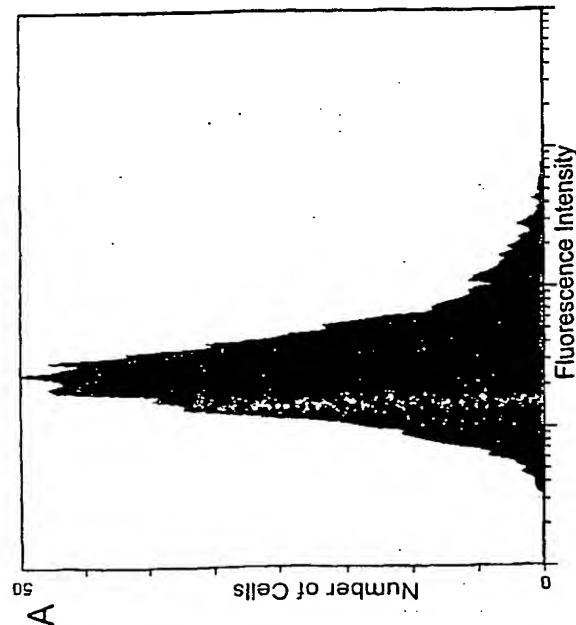
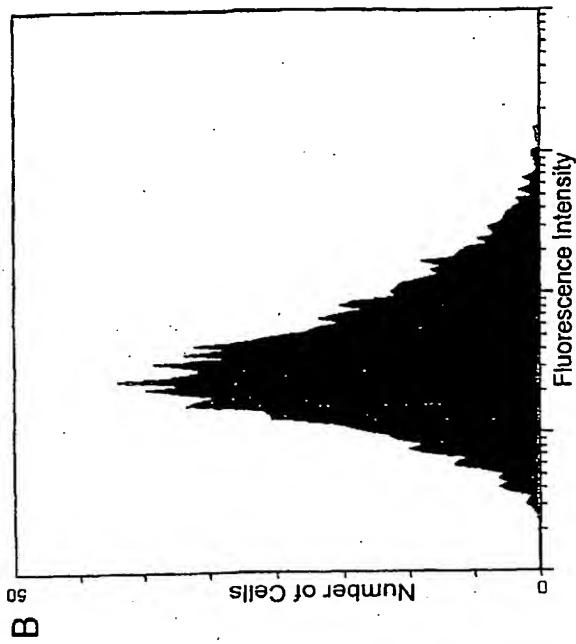


FIG. 31

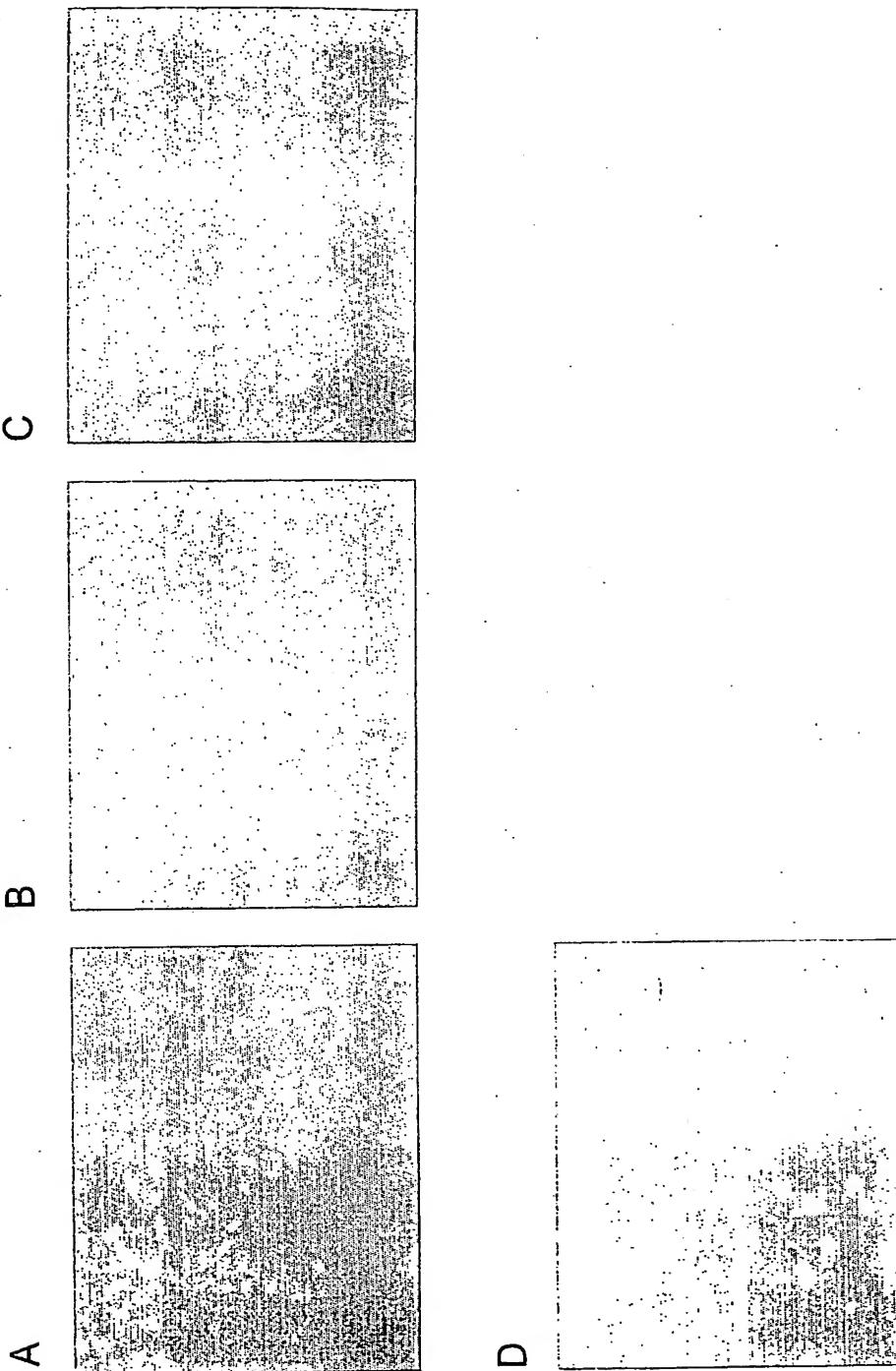
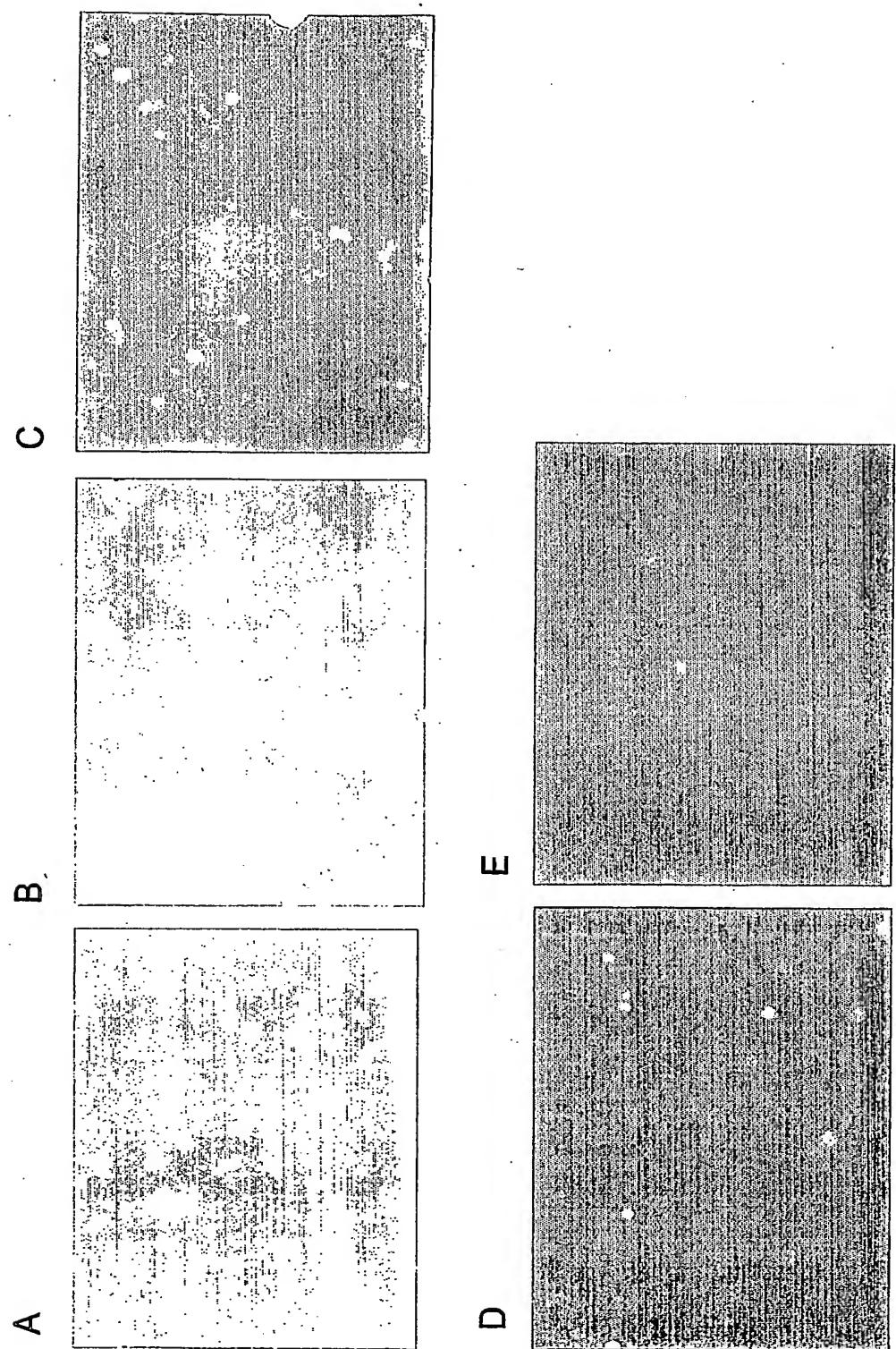


FIG. 32



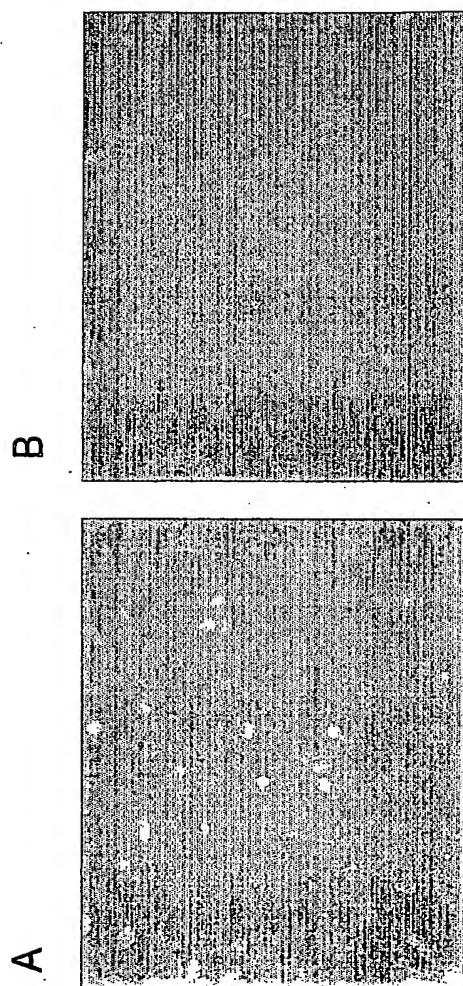
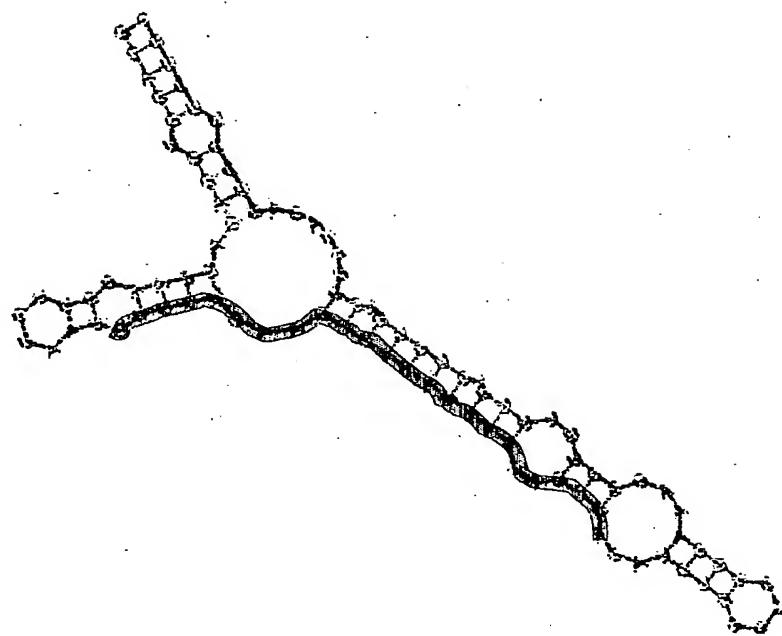


FIG. 34

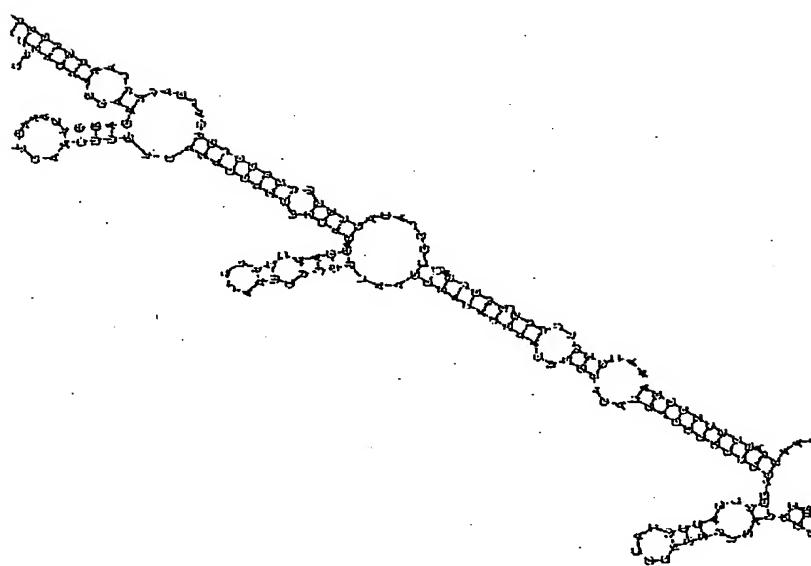
CCACGTGGACAGAAAGGTTCTAATGTTCAAGGCACAGGAACCTGGACATCIGCCCCAACCTTTCCTGCGATCCGGTAGCTTCTTGCG

FIG. 35

4



B



A

FIG. 36

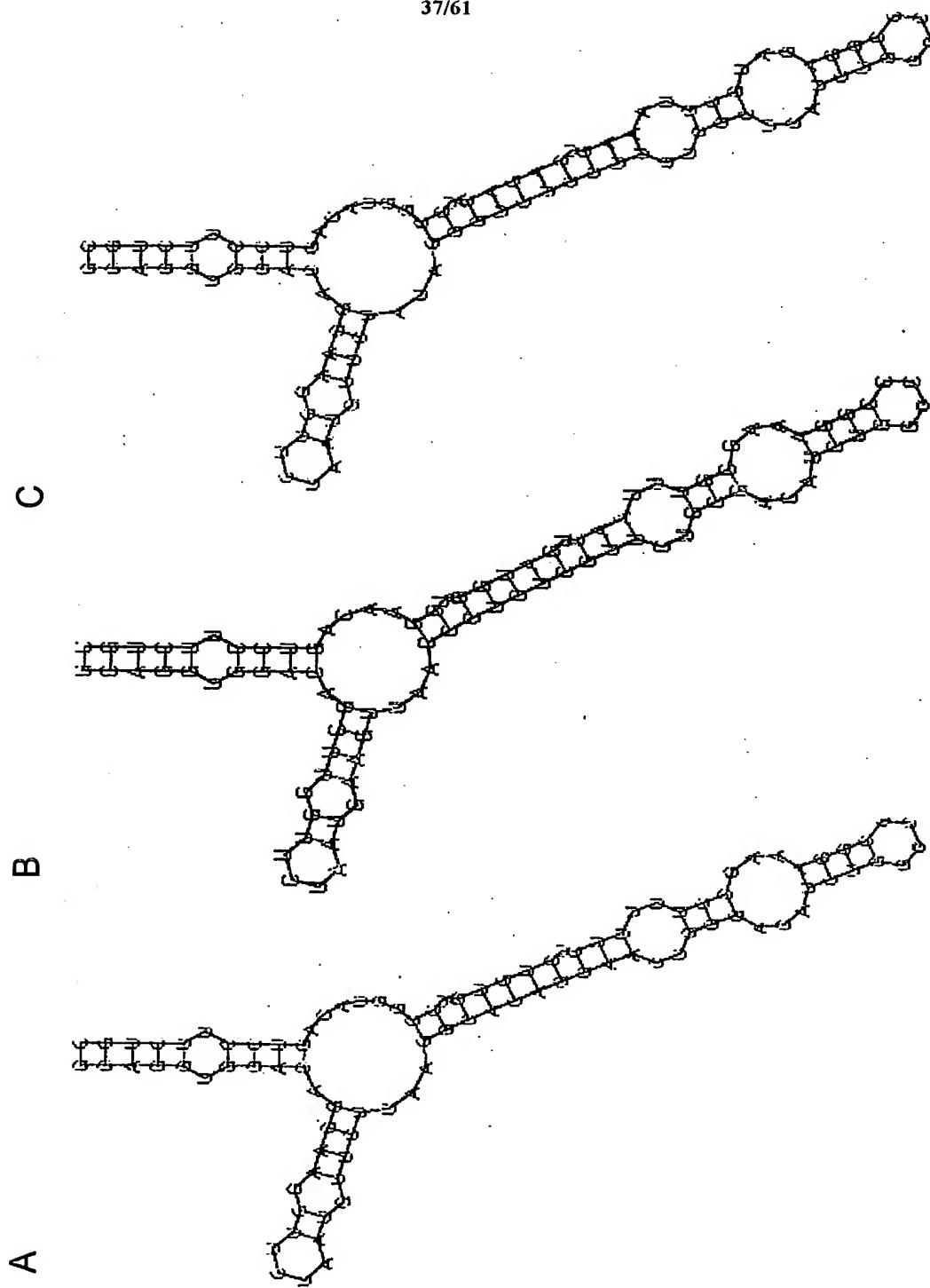


FIG. 37

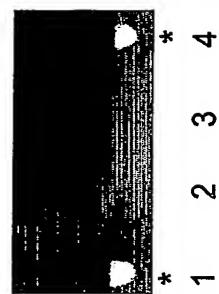


FIG. 38



A



B



C

FIG. 39



A

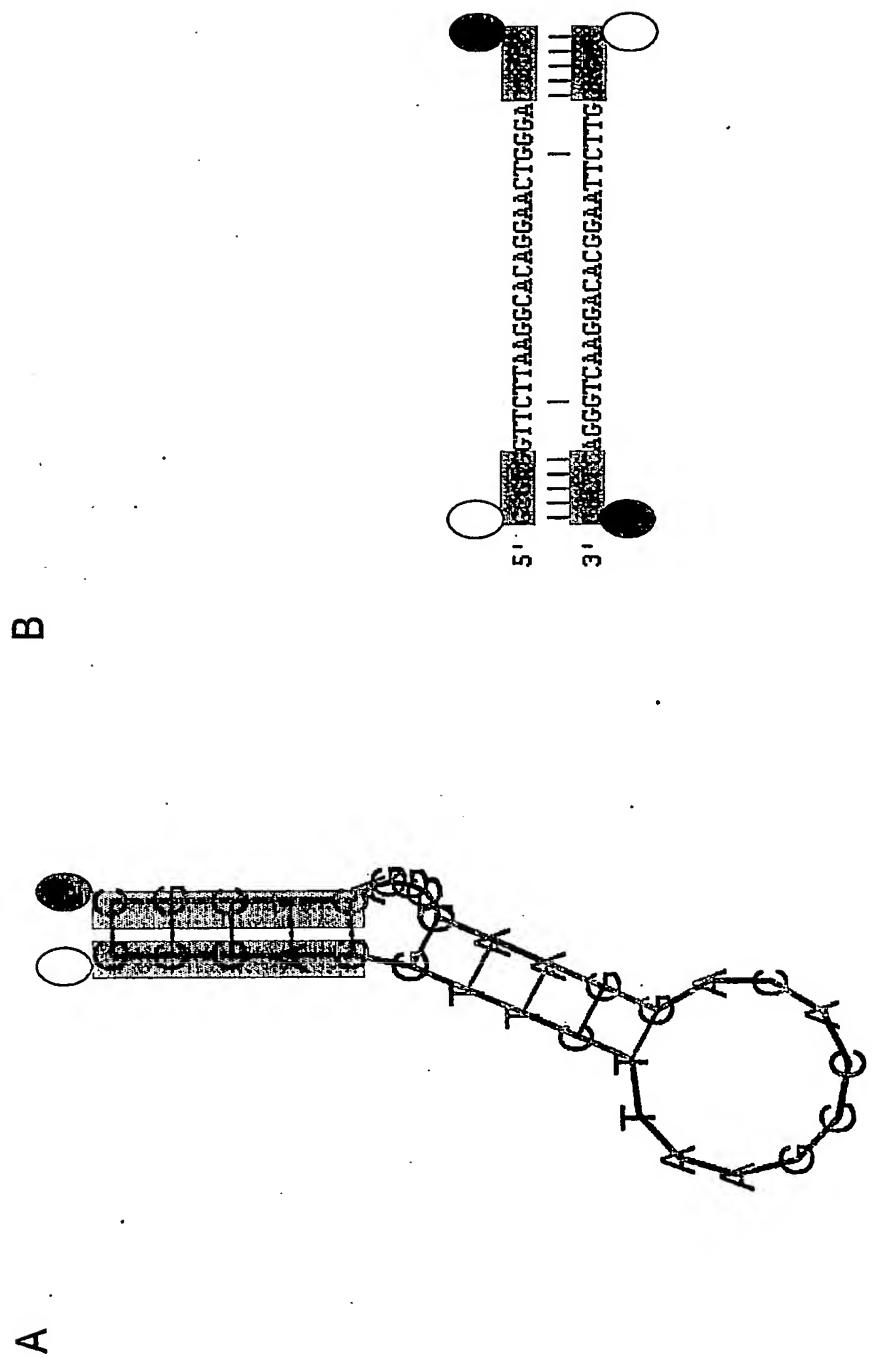


B



C

FIG. 40



A
GCAGGGACAGGAAGGGTTCTAATGTTCTTAAGGCACA
GGAACTGGGACATCTGGCCCCGAAAGCCTTTCTCT
GTGATCCGGTACAGTCCTCTGC

B
GCAGGGTGGACAGGCTTGGTTCTAATGAAGTAAACCCTGT
CGTTCTCGACATCTGGCCCCGAAAGCGTTAACUGA
TGAUGGAACAGTCCTCTGC

C
GCAGGGTGGACAGGAAGGGTTCTAATGTTCTATAGGGTCT
GCTTGTGGCTCATCTGGCCCCGAGATGCGT
AAAGTCAGACATCCGGTACAGTCCTCTGC

D
1 GTTCTTAAGGCCACAGGAACTTGGCA
2 GAAGTTAACCCCTGTCGTGTTCTGCGA
3 GTTCTATAGGGTCTGCTTGTCGGCT

50% different from target 1;
66% different from target 3
50% different from target 1

FIG. 42

A start
GCACGTTGGACAGGAAGGTCTAATGTTCTTAAGGGACAGGAACACTGGGACATCTGGGCCGAAAGCCTTTCCTCTGTGATCCGGTACAGTCCTTC
TGC

B 1 GCAGGTGGACAGGCTTGTTCTAATGAAGTTAACCCCTGTCTGGACATCTGGCACATCTGGCCCGGAAAGGCTTAAC[TGACA]GATGGGGTACAGTCCTTC
TGC

C 2 GCAGGTGGACAGGCTTGTTCTAATGAAGTTAACCCCTGTCTGGACATCTGGCACATCTGGCCCGGAAAGGCTTAAC[TGACA]GATGGGGTACAGTCCTTC
TCTGC

D 3 GCAGGTGGACAGGCTTGTTCTAATGAAGTTAACCCCTGTCTGGACATCTGGCACATCTGGCCCGGAAAGGCTTAAC[TT]GATGGGGTACAGTCCTTC
TGC

E 4 GCAGGTGGACACCTGGTCTAATGAAGTTAACCCCTGTCTGGACATCTGGCCCGGAAAGGCTTAACTGATGG[[AT]]GGTACAGTCCTTC
TCTGC

F 5 GCAGGTGGACAGGCTTGTTCTAATGAAGTTAACCCCTGTCTGGACATCTGGCCCGGAAAGGCTTAACTGATGGATGGAAACAGGCTTCTTC
C

G modifications of sequence compared to previous sequence:

- 1 underlined = change in bases
- 2 [single bracket] = bases cut out
- 3 [[double bracket]] = bases added
- 4 [[double bracket]] = bases added
- 5 underlined = change in bases

FIG. 43

A

start
GCAGGTGGACAGGAAGGTCTAATGTTCTAAGGCACAGGAACATGGGACATCTGGGCCGGAAAGCCTTTTCTGTGATCCGGTACAGTCCTTCTGC

B

1 GCAGGTGGACAGGAAGGTCTAATGTTCTAATGGGTCTGCTTGCTGCTCATCTGGGCCGGAAAGCCTTAAGTCAAGATCCGGTACAGTCCTTCTGC
2 GCAGGTGGACAGGAAGGTCTAATGTTCTAATGGGTCTGCTTGCTGCTCATCTGGGCCGGAAAGCCTTAAGTCAAGATCCGGTACAGTCCTTCTGC

C

3 GCAGGTGGACAGGAAGGTCTAATGTTCTAATGGGTCTGCTTGCTGCTCATCTGGGCCGGAAAGCCTTAAGTCAAGATCCGGTACAGTCCTTCTGC
4 GCAGGTGGACAGGAAGGTCTAATGTTCTAATGGGTCTGCTTGCTGCTCATCTGGGCCGGAAAGCCTTAAGTCAAGATCCGGTACAGTCCTTCTGC

D

5 GCAGGTGGACAGGAAGGTCTAATGTTCTAATGGGTCTGCTTGCTGCTCATCTGGGCCGGAAATGGTTAAAGTCAGACATCCGGTACAGTCCTTCTGC
AAAGTCAGACATCCGGTACAGTCCTTCTGC

E

6 GCAGGTGGACAGGAAGGTCTAATGTTCTAATGGGTCTGCTTGCTGCTCATCTGGGCCGGAAATGGCT[G]ATGGCT
AAAGTCAGACATCCGGTACAGTCCTTCTGC

F

H

- 1 underlined = change in bases
- 2 underlined = change in bases
- 3 underlined = change in bases
- 4 underlined = change in bases
- 5 [single bracket] = bases cut out
- 6 [[double bracket]] = bases added

FIG. 44

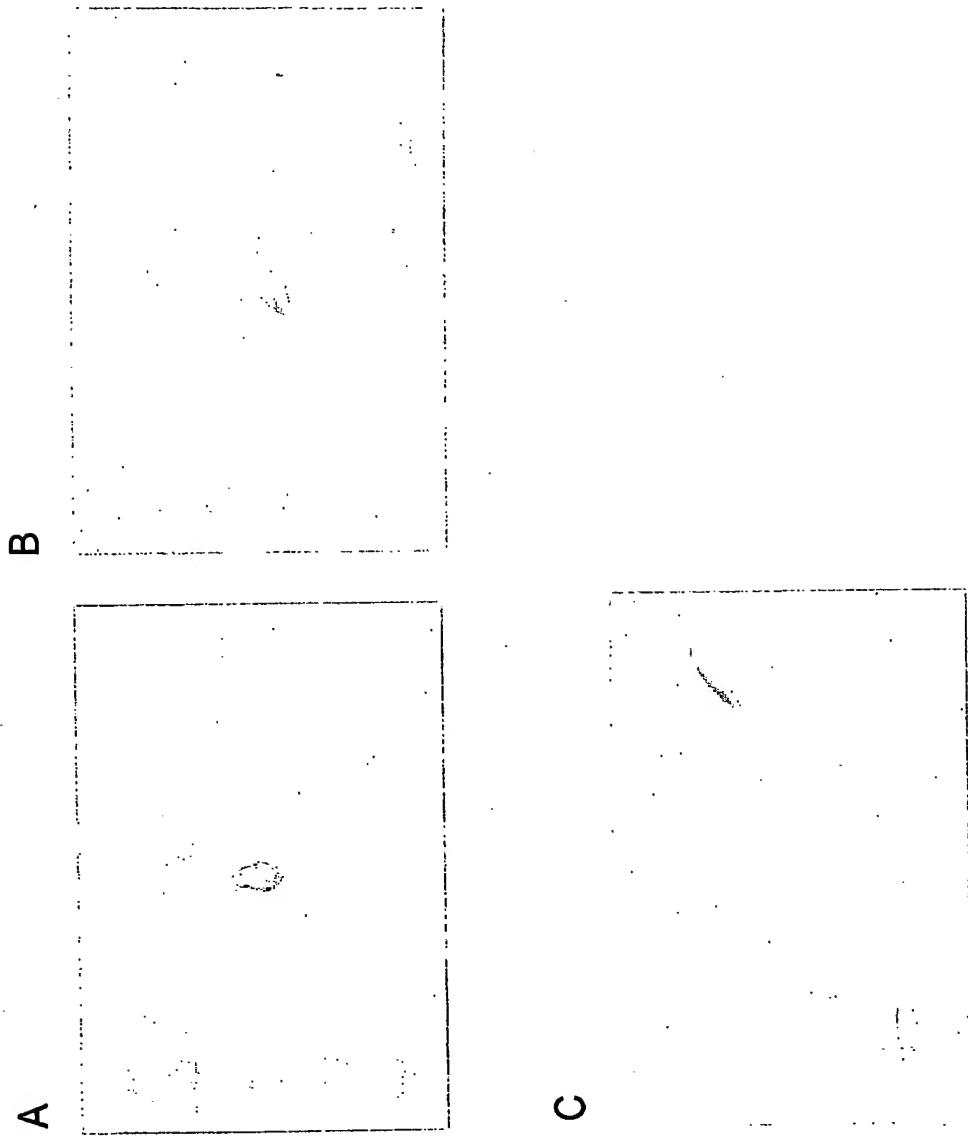


FIG. 45

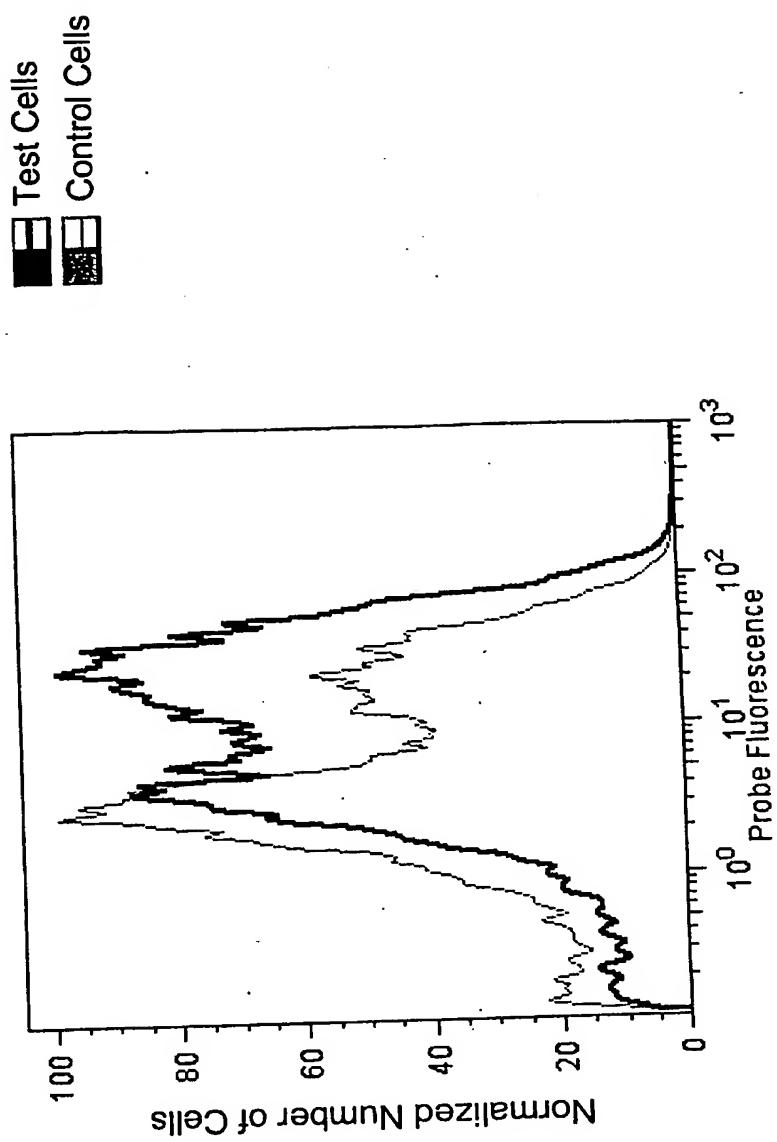


FIG. 46 mcon1

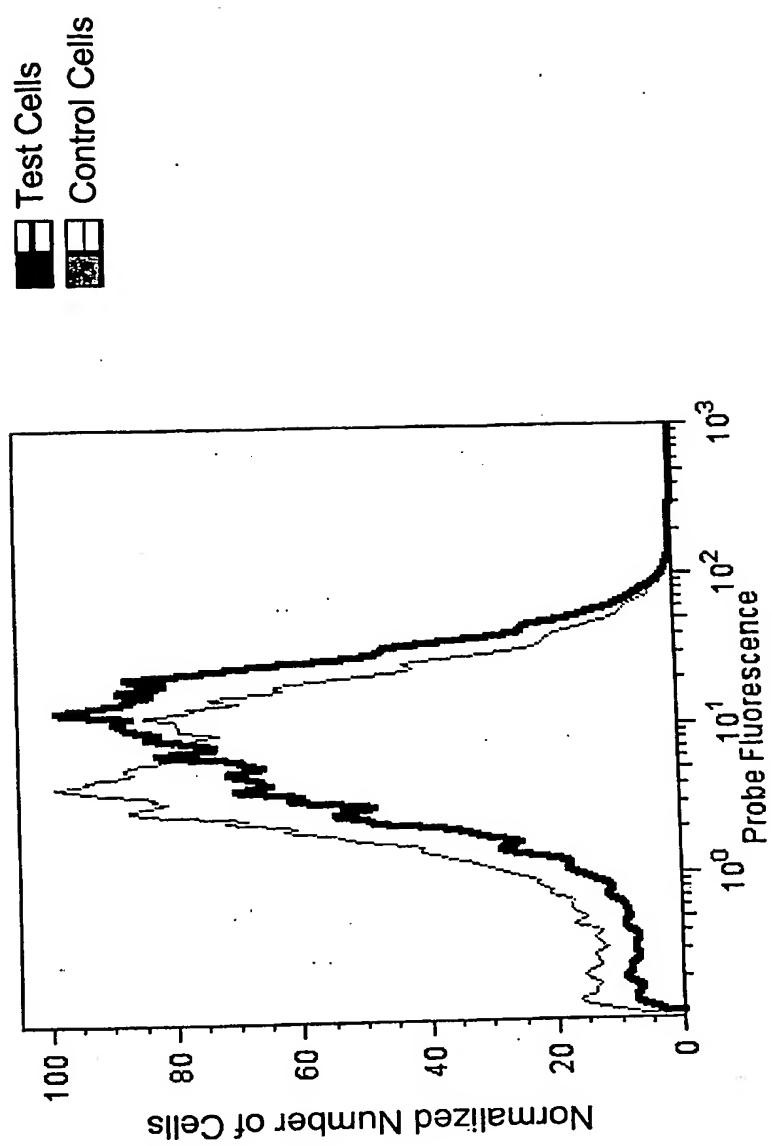


FIG. 47 mcon2

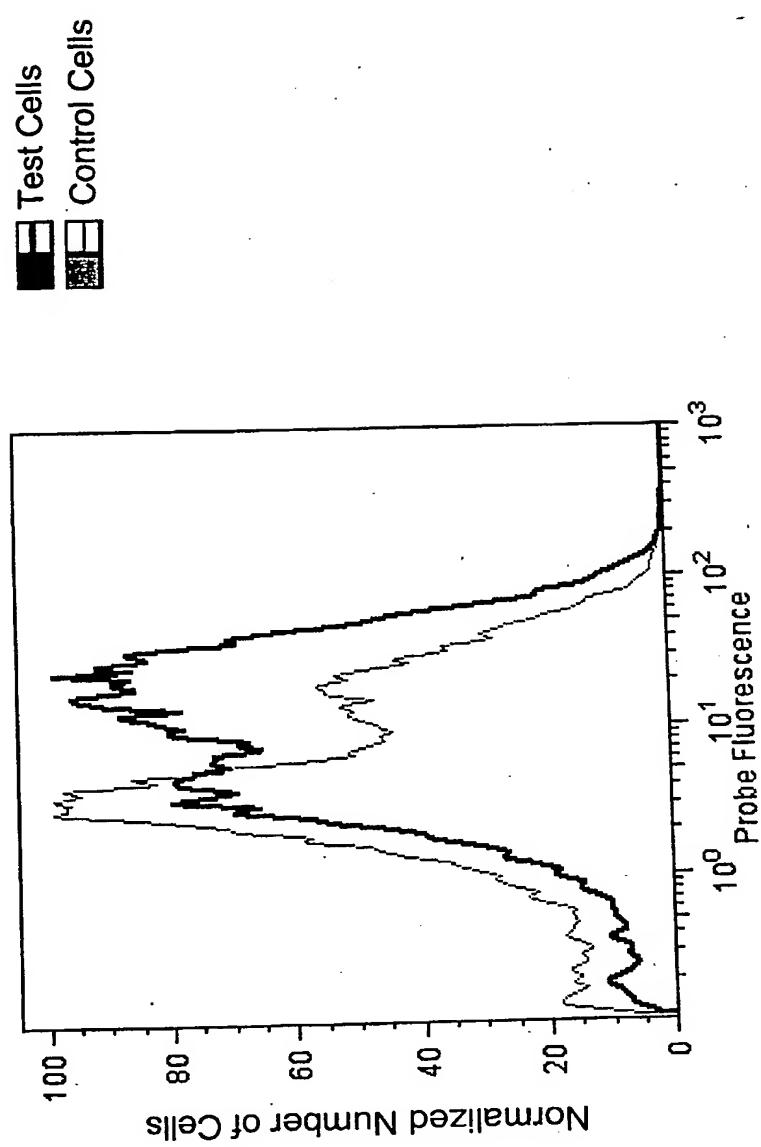


FIG. 48 mcon3

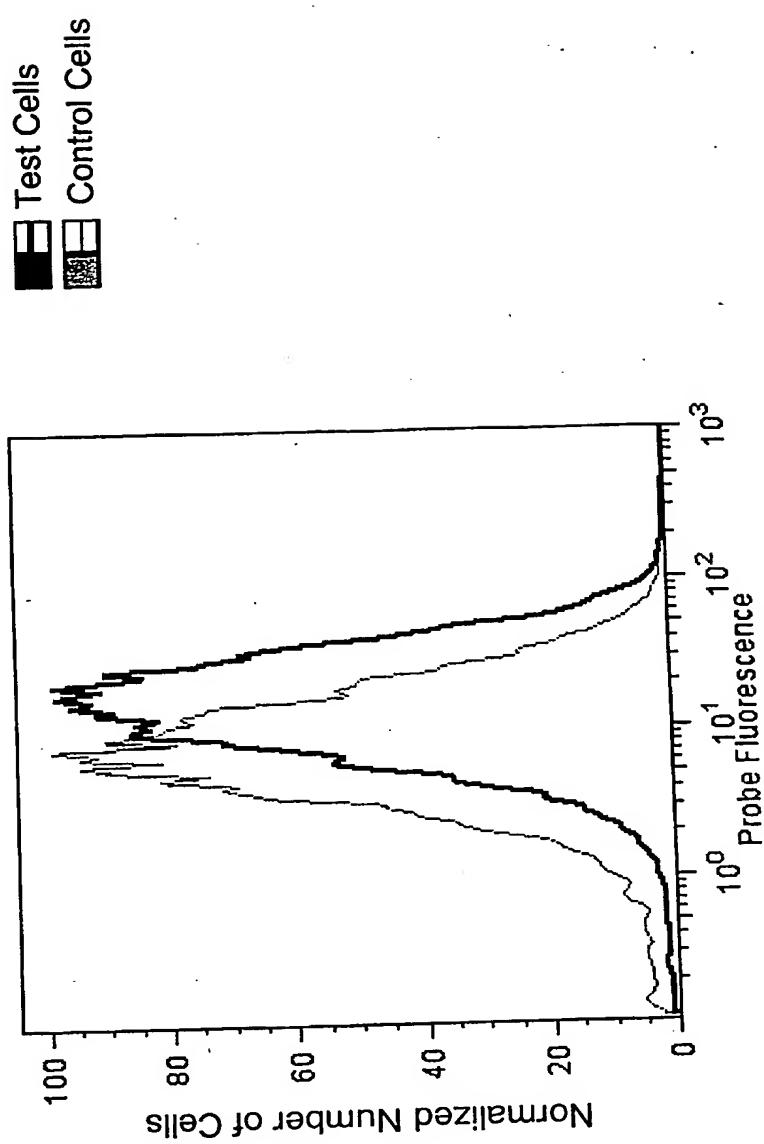


FIG. 49 mcon4

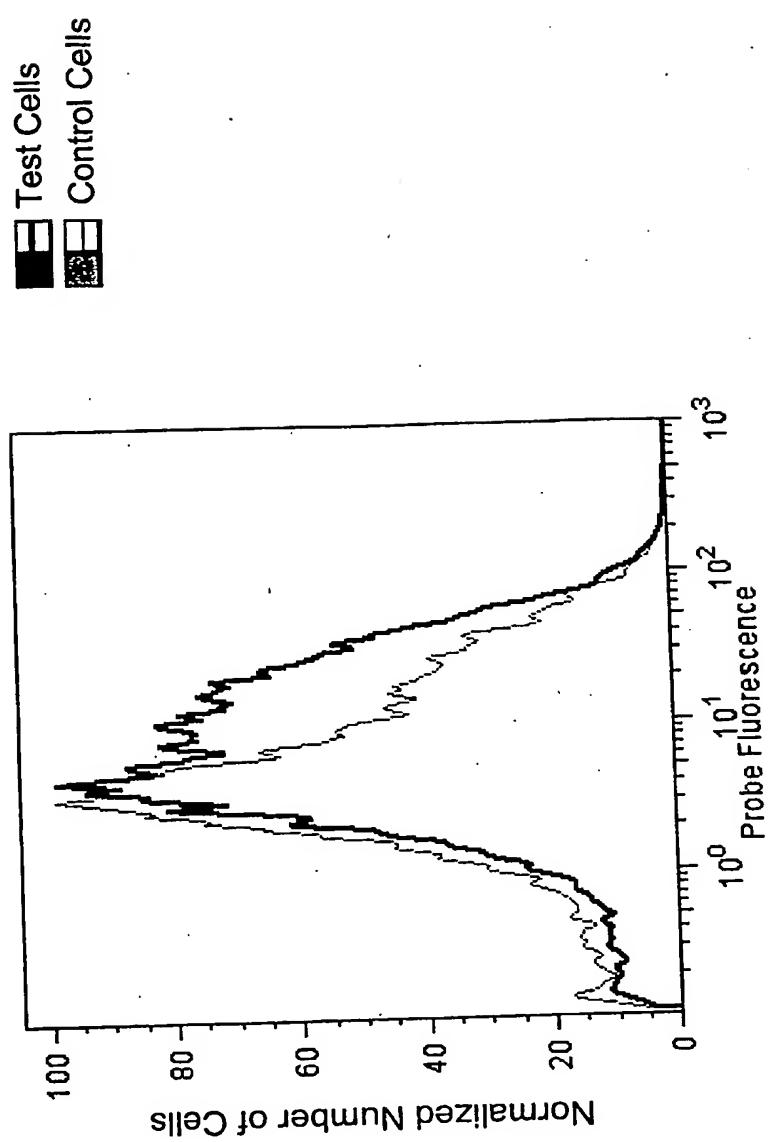


FIG. 50 mcon5

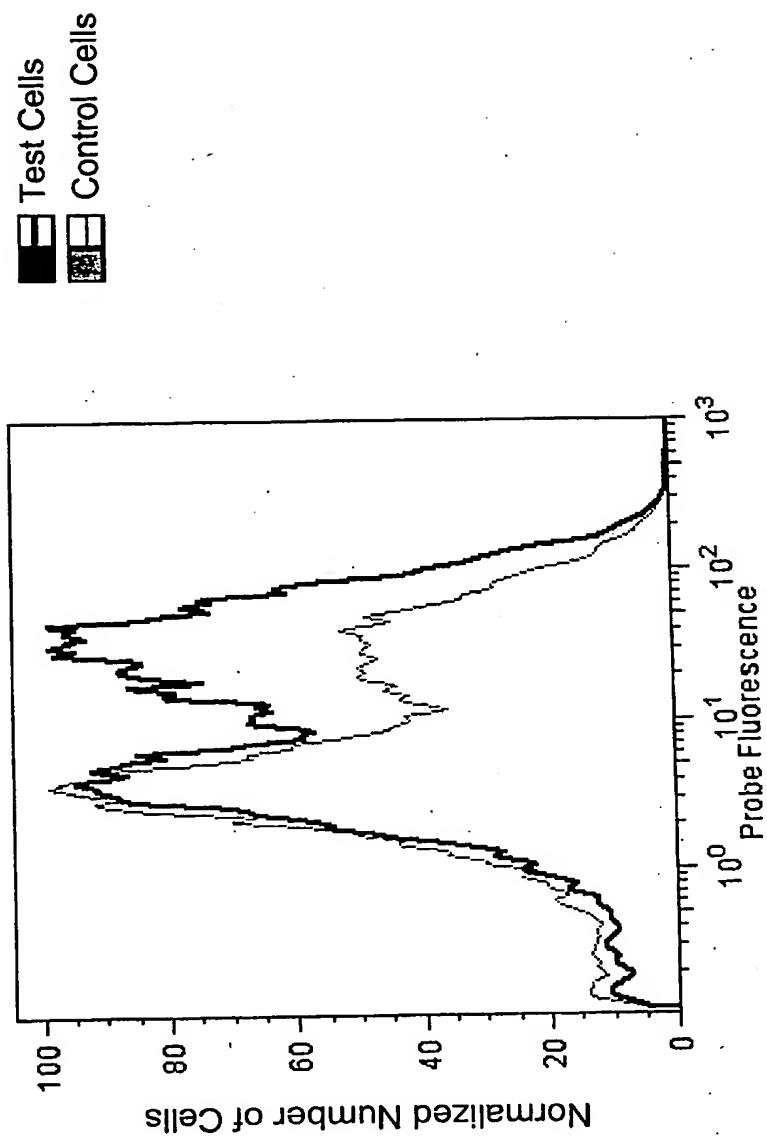


FIG. 51 mcon6

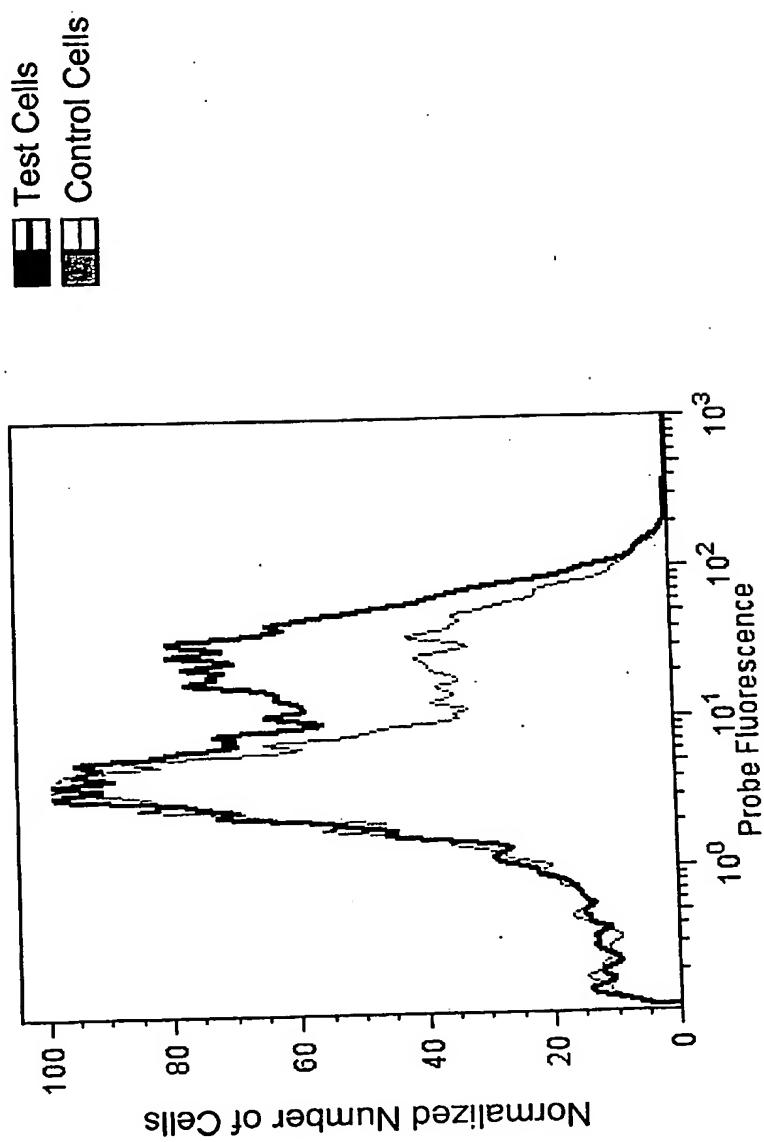


FIG. 52 mcon7

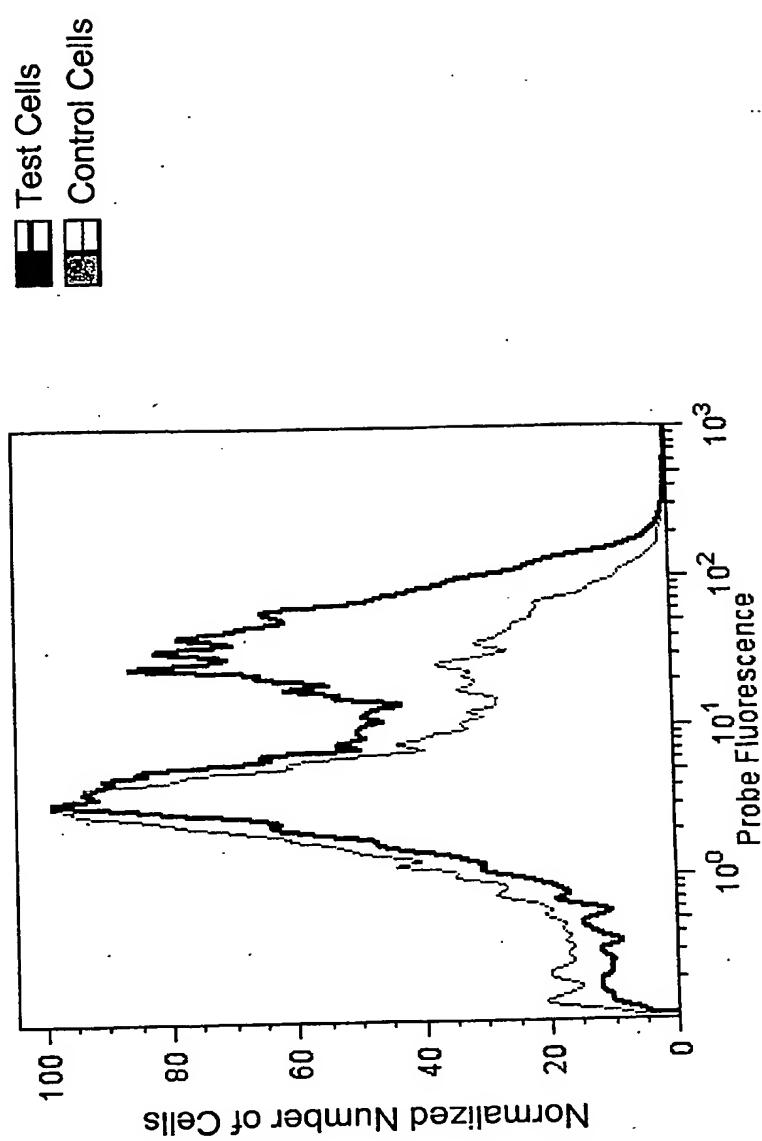


FIG. 53 mcon8

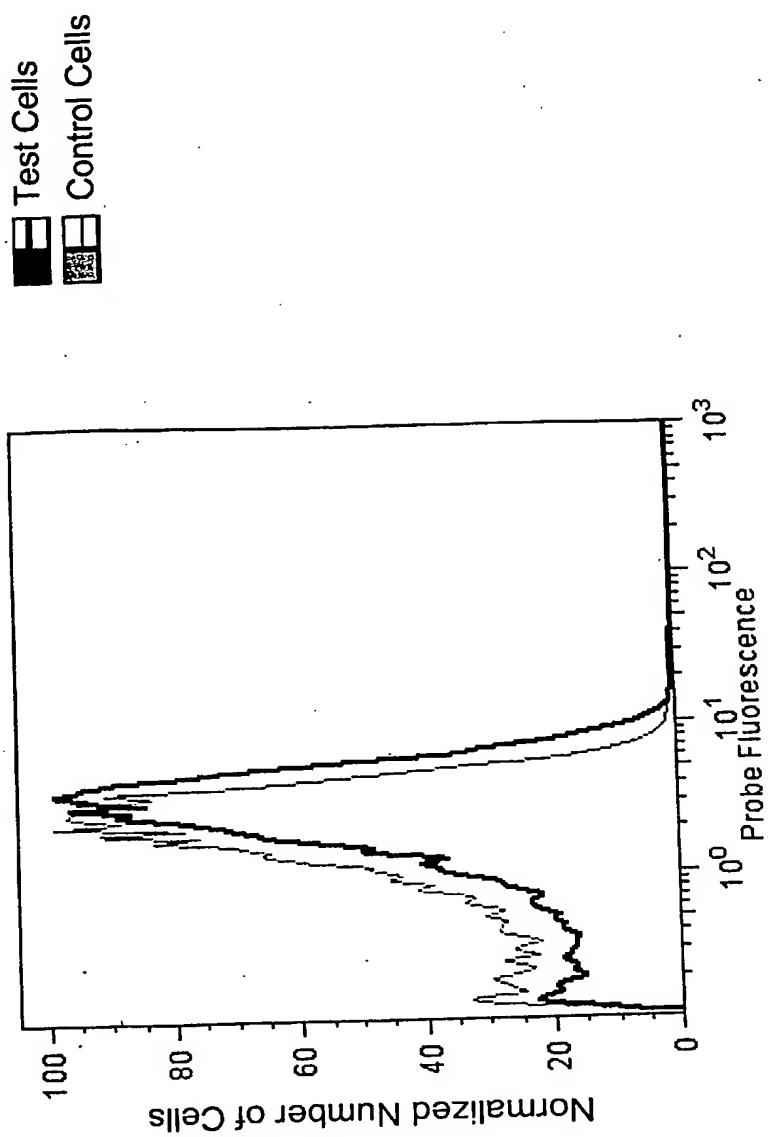


FIG. 54 mcong

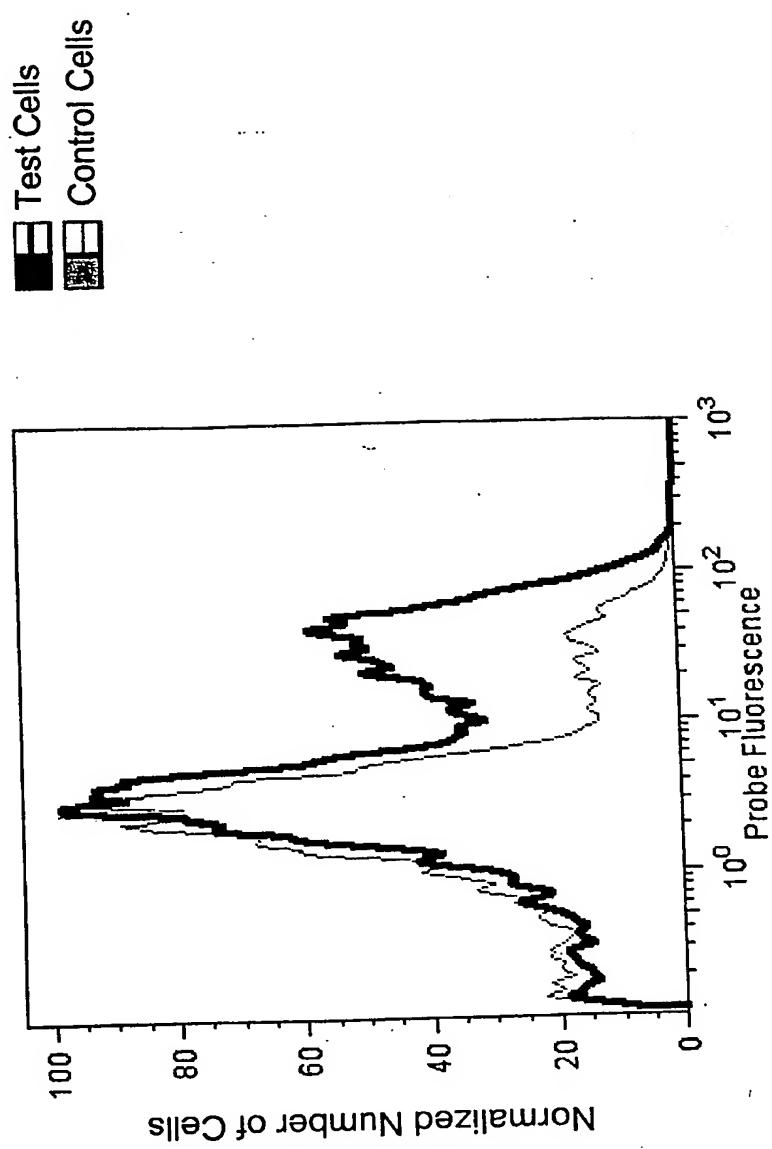


FIG. 55 mcon10

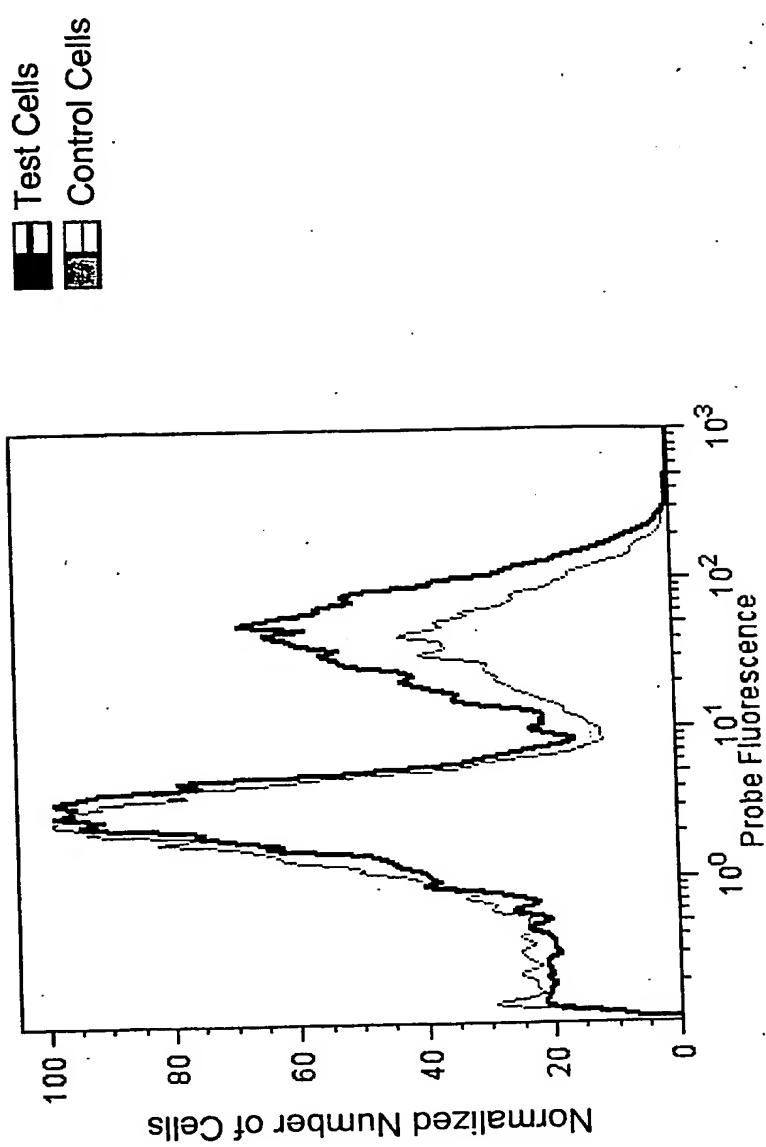


FIG. 56 mcon11

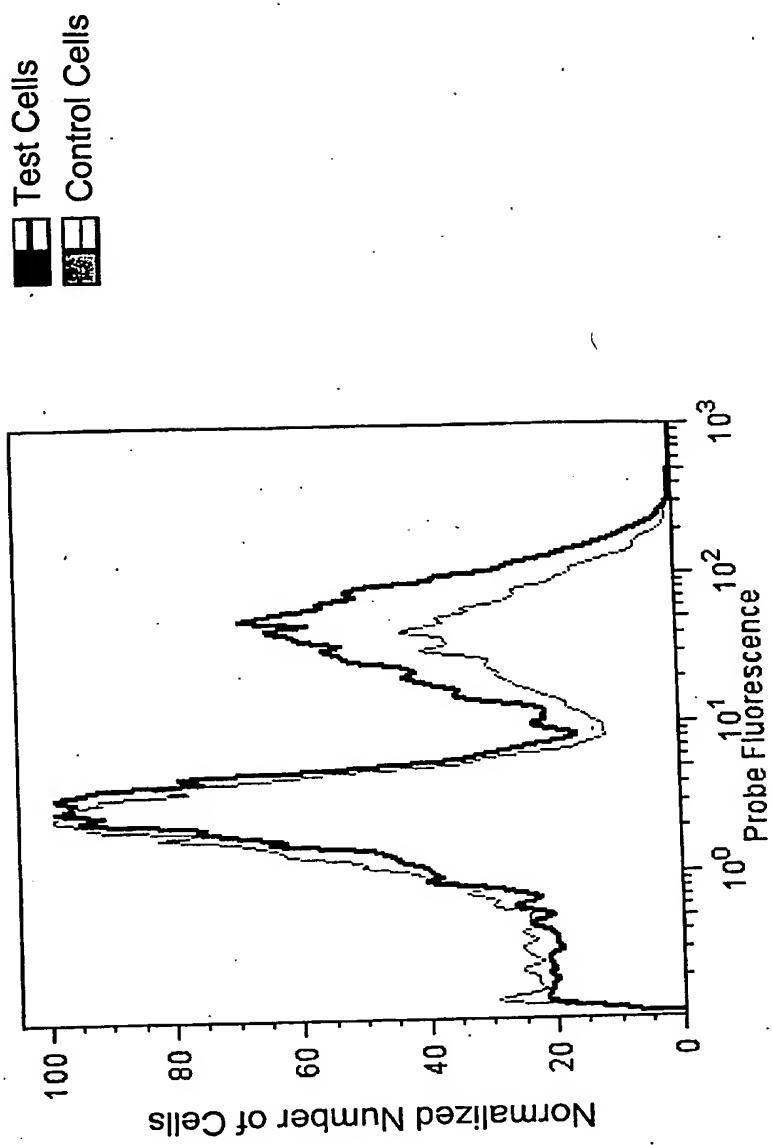


FIG. 56 mcon11

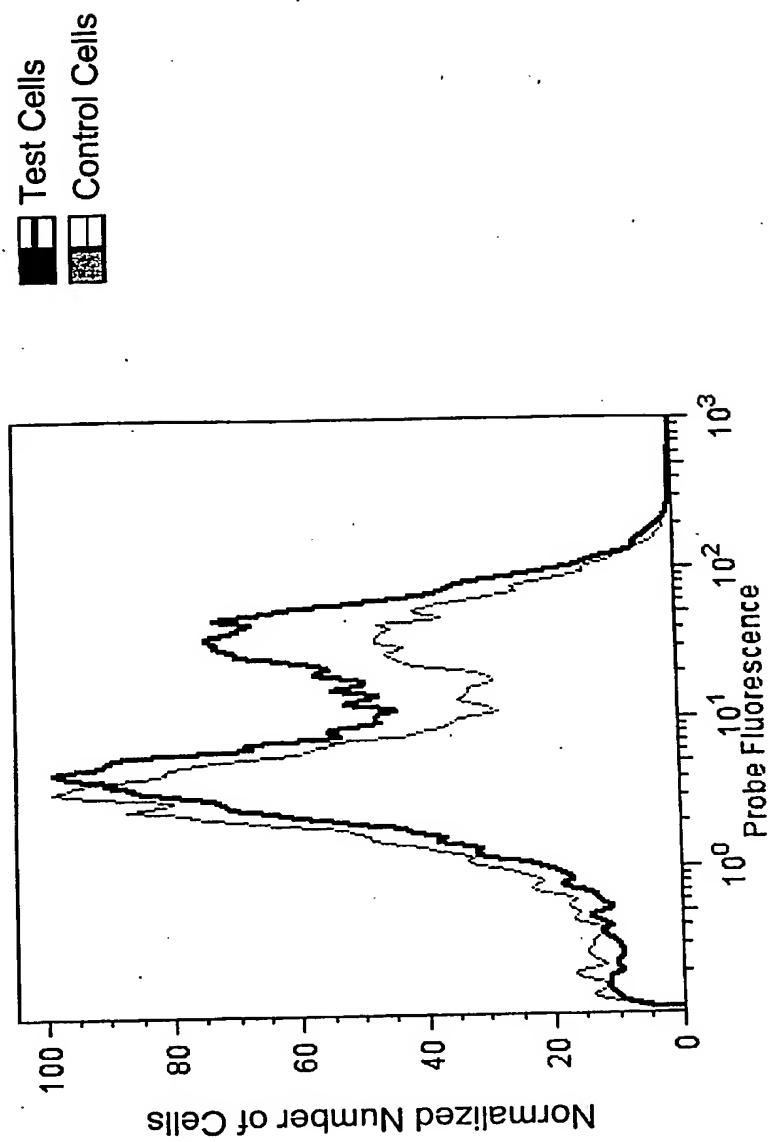


FIG. 57 mcon12

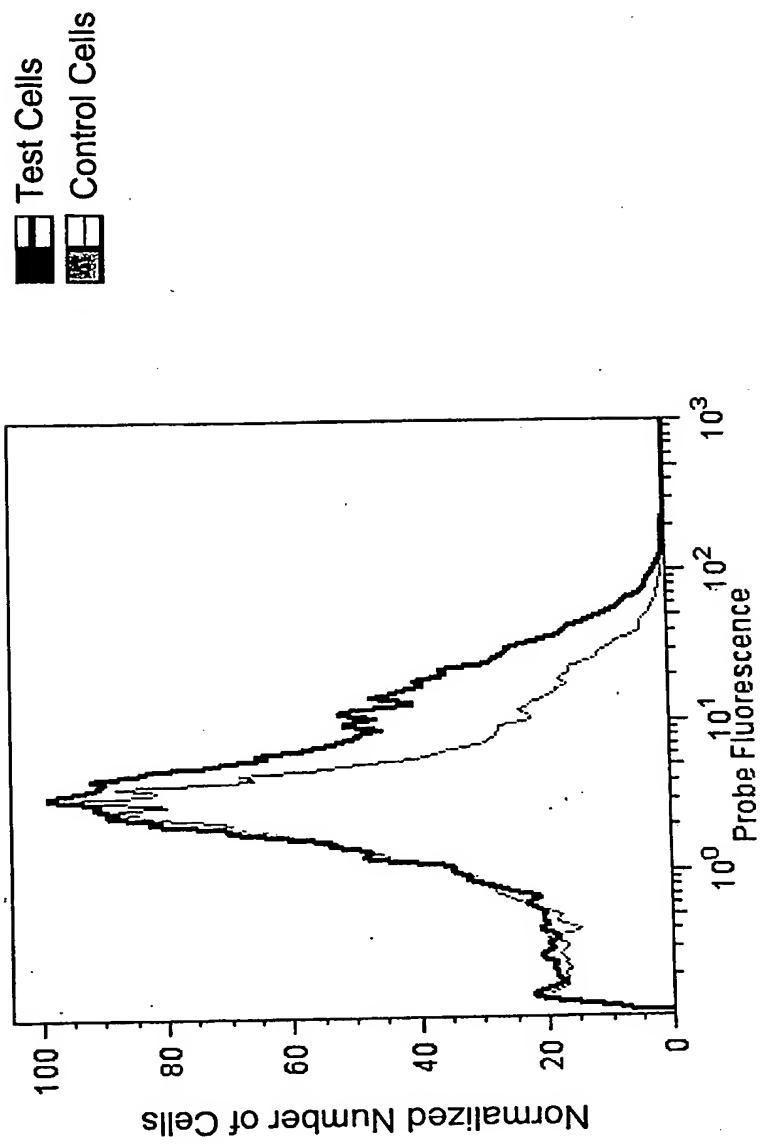


FIG. 58 mcon13

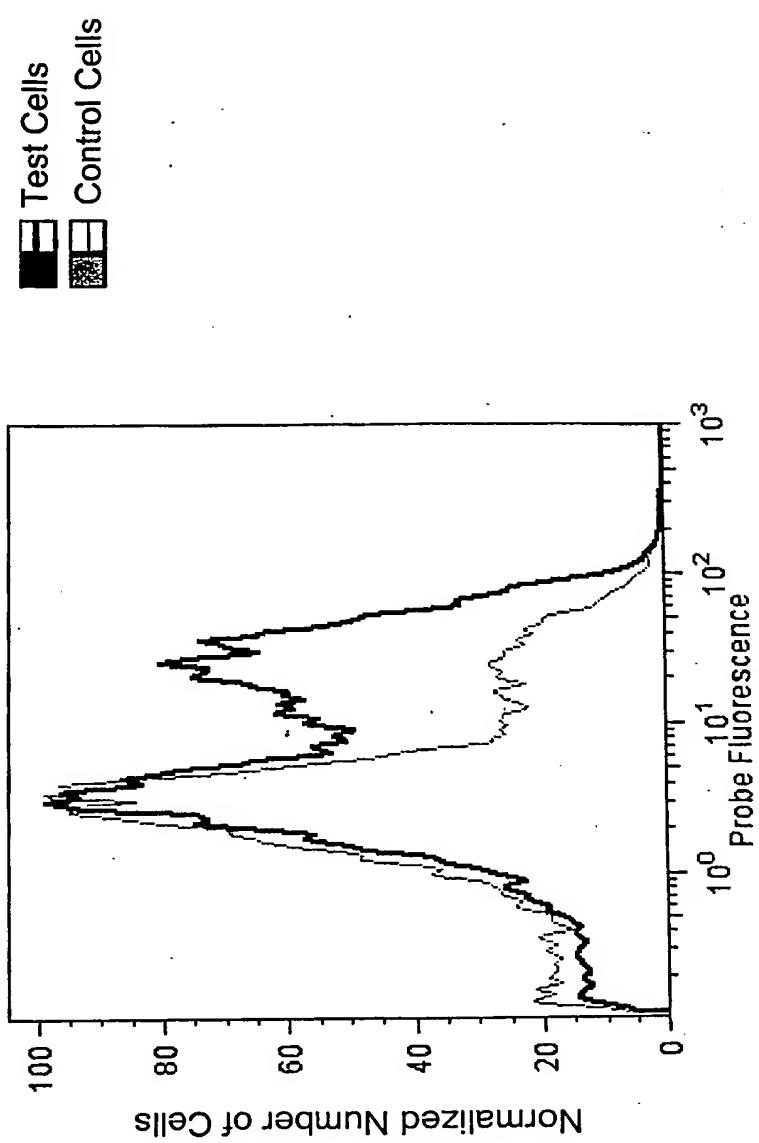


FIG. 59 mcon14

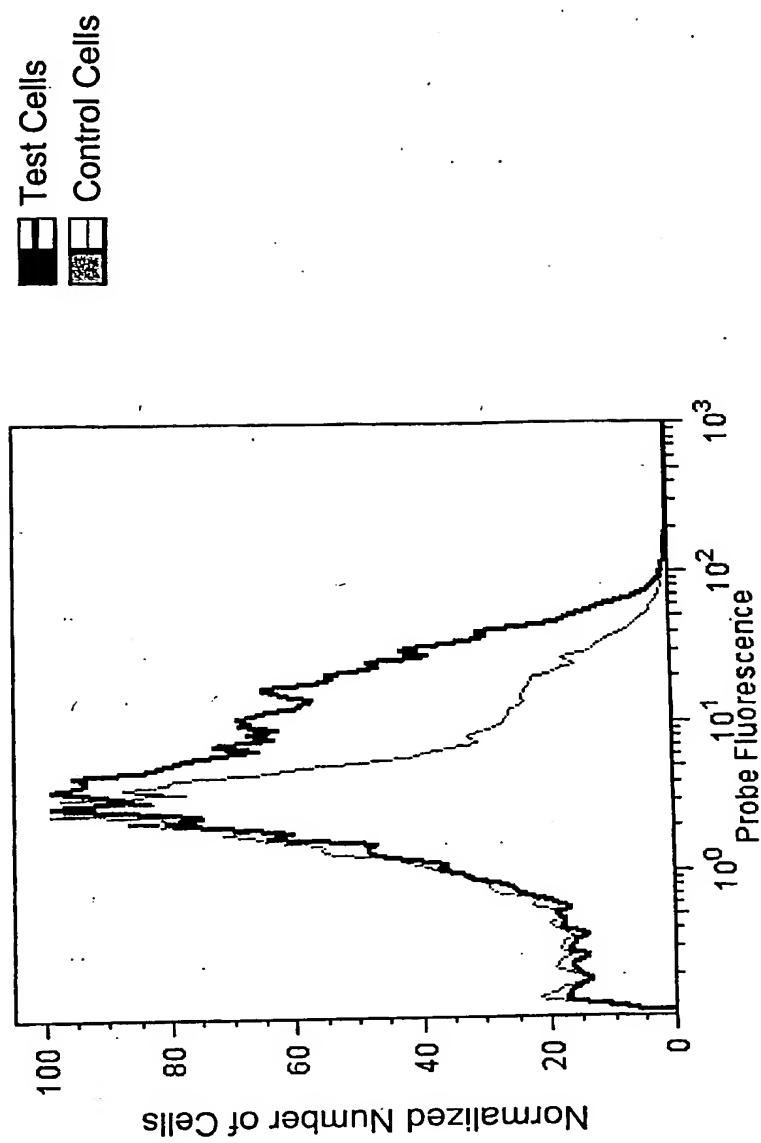


FIG. 60 mcon15